



DOC273.98.90733

Claros hardware setup for Ethernet/IP or Profinet implementation

10/2020, Edition 1

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Section 1 Intended use

These setup instructions are intended for use by persons who integrate external Ethernet/IP Gateway or Profinet Gateway as hardware components in the Claros network.

Section 2 Introduction

The manufacturer is not responsible for any damages due to misapplication or misuse of this product including, without limitation, direct, incidental and consequential damages, and disclaims such damages to the full extent permitted under applicable law. The user is solely responsible to identify critical application risks and install appropriate mechanisms to protect processes during a possible equipment malfunction.

⚠ DANGER	
	Electrocution hazard. Always remove power to the instrument before making electrical connections.

Items to collect:

- USB stick formatted as FAT32
- PC with Windows¹ 10
- Module:
 - For Ethernet/IP implementation:
 - LXZ446.99.00001: GATEWAY IIoT RevPi Basic Module
 - LXZ446.99.00002: GATEWAY Ethernet/IP Slave
 - LXZ446.99.00003: Jumper for PiBridge
 - For Profinet implementation:
 - LXZ446.99.00001: GATEWAY IIoT RevPi Basic Module
 - LXZ446.99.00007: GATEWAY Profinet IRT Slave
 - LXZ446.99.00003: Jumper for PiBridge

Connect the three modules RevPi, Slave and PiBridge to power and LAN.

Refer to the links in the table that follows for more information from the manufacturer of the modules.

Module	Link
GATEWAY Profinet IRT Slave	https://www.kunbus.com/profinet-irt-gateway-module.html
GATEWAY Ethernet/IP Slave	https://www.kunbus.com/ethernet-ip-gateway-module.html
GATEWAY IIoT RevPi Basic Module	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US

¹ Microsoft® Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

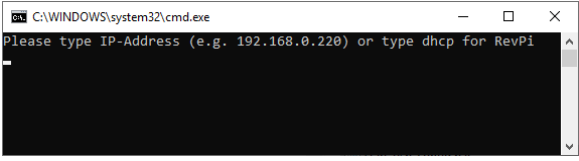
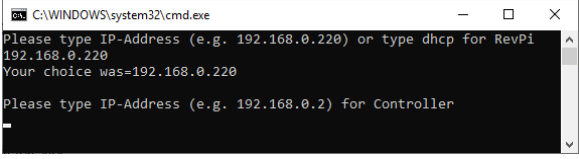
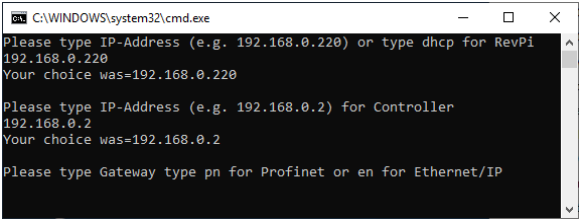
Module	Link
How to connect RevPi Modules	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
How to install RevPi Modules on a DIN rail	https://revolution.kunbus.com/tutorials/din-rail-mounting/
How to connect the power supply	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

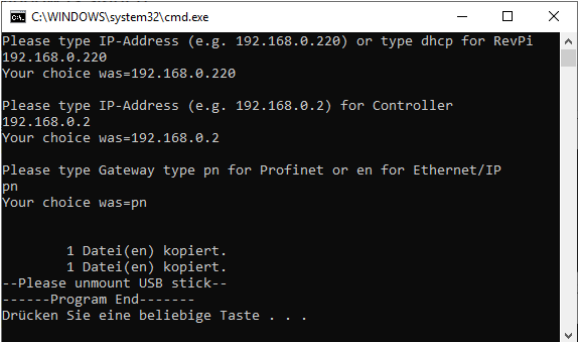


Prepare the USB stick

1. Insert an empty USB stick in the PC.
2. Go to <https://www.hach.com> and search for the keywords "usb ethernet/IP installation" or "usb profinet installation".
3. Download USB_ETHIP_PRNET.zip.
4. Unzip the file into the root directory of the USB stick.

Section 3 Start the USB configuration

Insert the prepared USB stick in the PC.

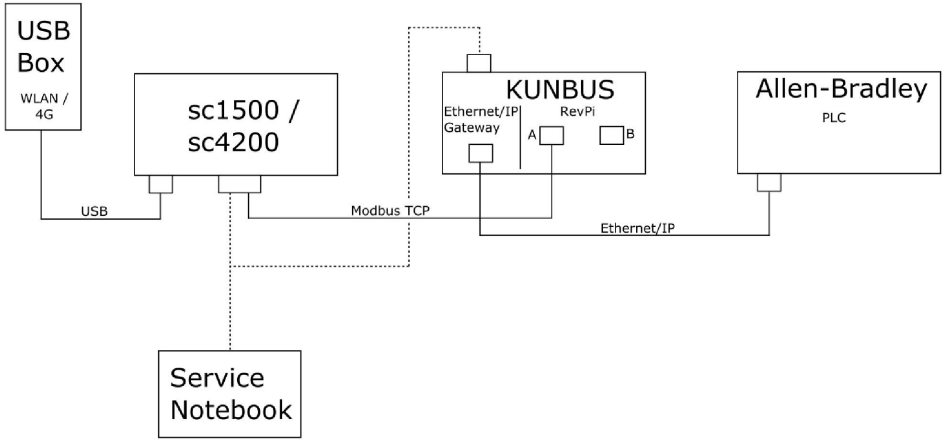
Step	Description	Picture
1	Start start_usb_config.bat. A terminal window opens. Follow the step-by-step guide.	
2	Enter the IP address of the RevPi module.	
3	Enter the IP address of the SC controller. Make sure that the Network prefix is the same as from the RevPi module (e.g., 192.168.0). Make sure that the host identifier is different to the RevPi module (e.g., 220 RevPi, 2 Controller).	
4	Enter the Gateway type: <ul style="list-style-type: none">• pn—Profinet• en—Ethernet/IP	

Step	Description	Picture
5	Confirm the settings with Enter. Remove the USB stick.	
6	Insert the USB stick in the left USB socket of the RevPi Module.	
7	LED description: <ul style="list-style-type: none"> • A1/A2 orange: RevPi installation starts. • A1 red, A2 off: RevPi insert USB stick. • A1 green, A2 off: USB stick inserted successfully. • A1 off, A2 green: RevPi downloads/uploads data from USB stick. • A3 red: RevPi reboots. When A3 is red, remove the USB stick.	
8	The RevPi settings are complete.	

Section 4 Examples for installation

Figure 1 shows an installation with two different LAN connections.

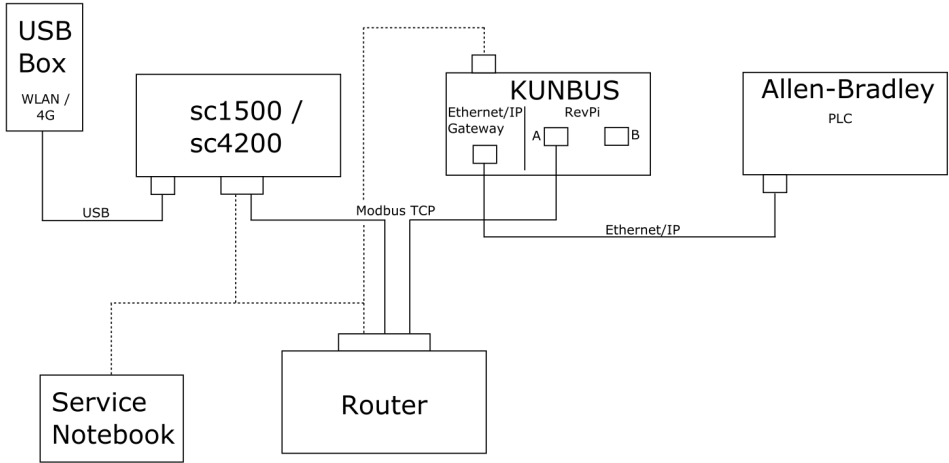
Figure 1 Example 1



- Modbus TCP and Ethernet/IP use two different LAN connections.
- All of the devices have a static IP address.
- The controller has internet access with WiFi or cellular connection.
- To set up the IP addresses of the controller and the Ethernet/IP gateway, a laptop is necessary.

Figure 2 shows an installation with a router for the Modbus TCP connection.

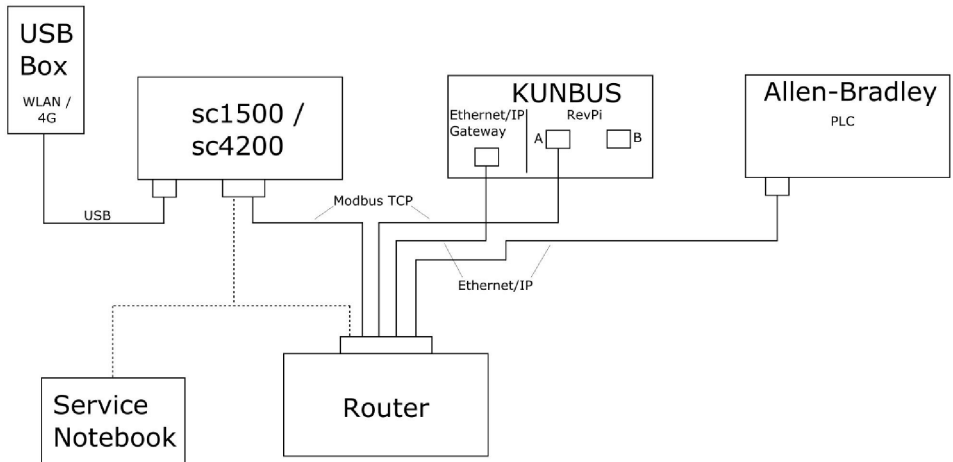
Figure 2 Example 2



- The Modbus TCP is connected to a router.
- All of the devices have a static IP address or the router sets the IP address through DHCP.
Note: Make sure that the router always uses the same IP address for the same devices (MAC) if DHCP is used.
- The controller has internet access with WiFi or cellular connection.
- To set up the IP address of the controller, the Ethernet/IP gateway and the router settings, a laptop is necessary.

Figure 3 shows an installation with a router or switch for all devices.

Figure 3 Example 3



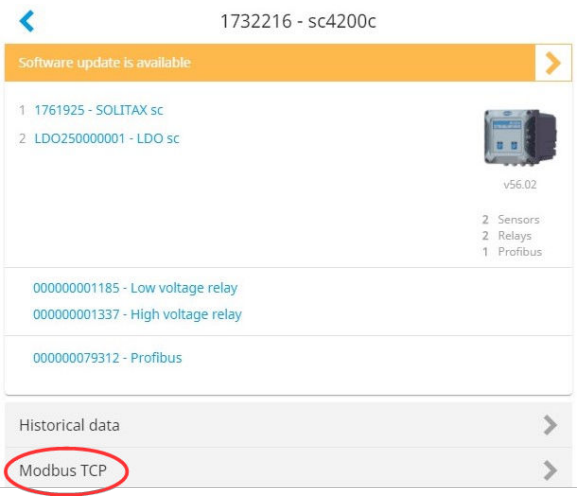
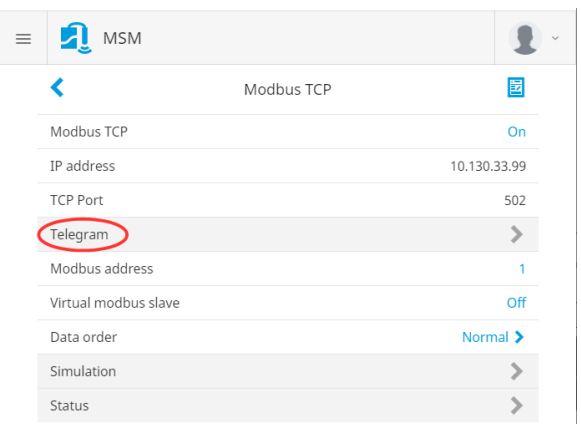
- All of the devices are connected with a router or switch.
- All of the devices have a static IP address or the router or switch sets the IP address through DHCP.

Note: Make sure that the router always uses the same IP address for the same devices (MAC) if DHCP is used.

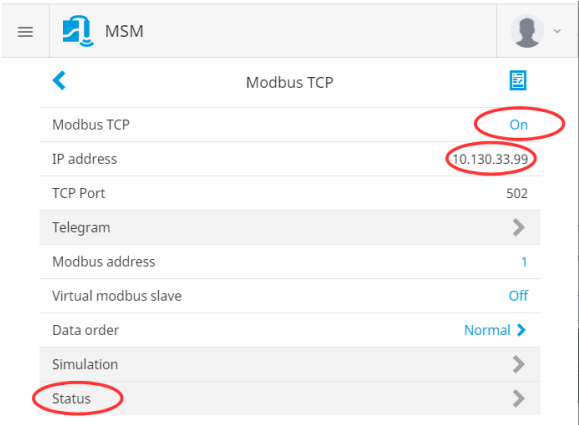
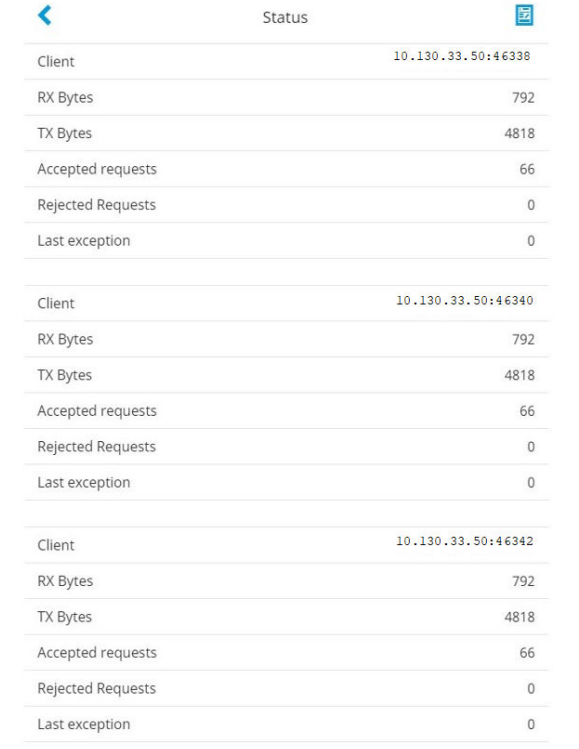
- The controller has internet access with WiFi or cellular connection.
- To set up the IP address of the controller and the router settings, a laptop is necessary.

Section 5 Setup of the SC4200c Controller Modbus TCP telegram

Start the Claros application and follow the step-by-step guide.

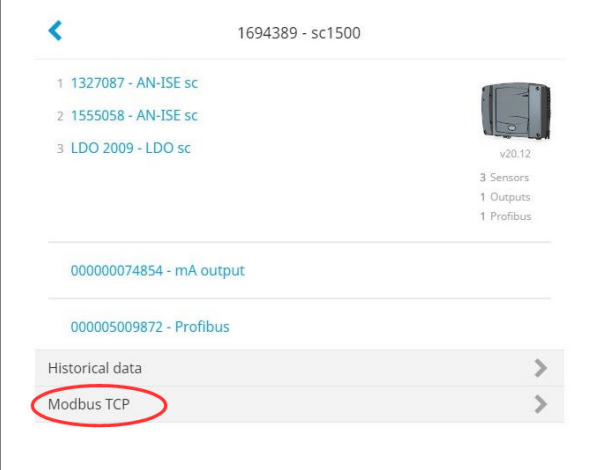
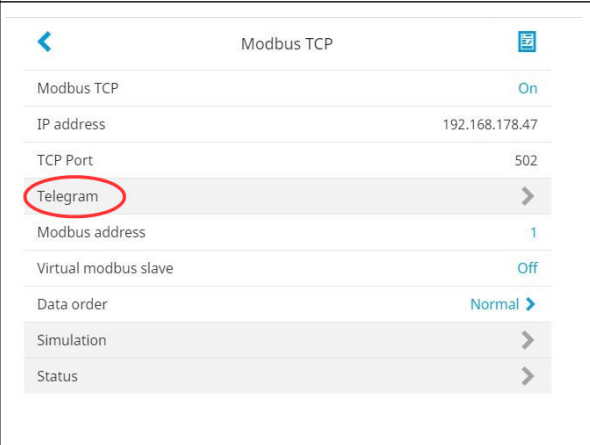
Step	Description	Picture
1	Select the controller menu, then push Modbus TCP .	
2	Select Telegram to set the Modbus TCP telegram.	

Step	Description	Picture
3	<p>The shown telegram is an example for the LDO sc sensor.</p> <p>Set the Heartbeat to integer.</p> <p>The heartbeat is a counter that shows the update of the value at one second increments.</p> <p><i>Note: The content of the Modbus TCP telegram is the same as the Profibus telegram.</i></p>	<p>The top screenshot shows the 'Telegram' configuration screen. It features a header with a menu icon, the 'MSM' logo, and a user profile icon. Below the header, there is a back arrow, the title 'Telegram', and a '1 devices' section with a '+ ADD SENSOR' button. A list of devices is shown with a search icon and a settings gear. The device 'LDO250000001' is selected, showing 'LDO sc' as the name. At the bottom, there are 'CANCEL' and 'SAVE' buttons.</p> <p>The bottom screenshot shows the configuration for the selected sensor 'LDO250000001'. It has a back arrow, the title 'LDO250000001', and a 'DELETE SENSOR' link. The configuration list includes '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer). There is a '+ ADD NEW TAG' button at the bottom. At the very bottom, there are 'CANCEL' and 'OK' buttons.</p>

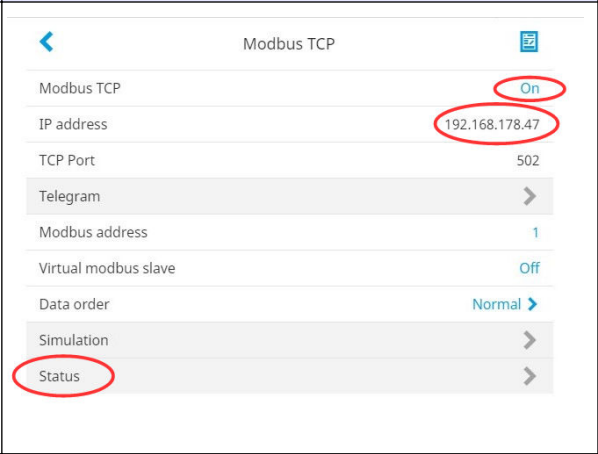
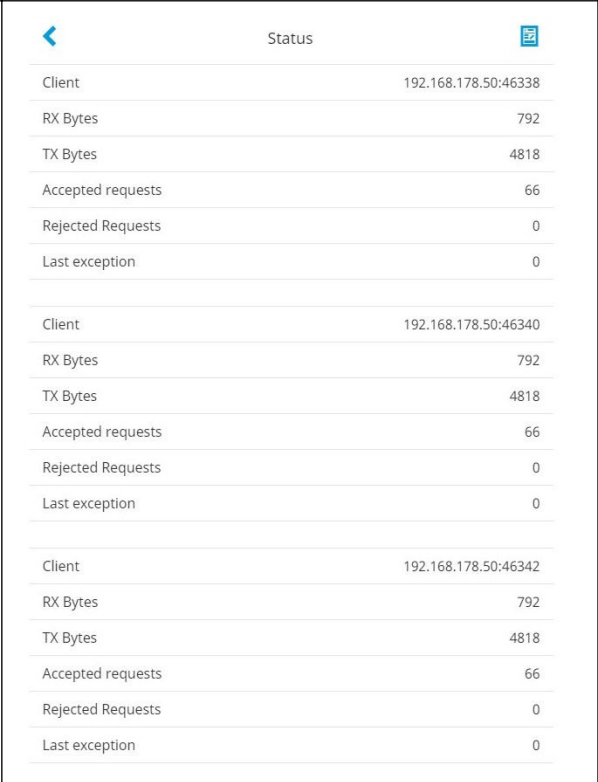
Step	Description	Picture																												
4	<p>The Modbus TCP menu shows the IP address of the controller. 10.130.33.99 is the IP address set in the controller service menu. Set Modbus TCP to On, then push Status.</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. The 'On' toggle is circled in red. The IP address '10.130.33.99' is circled in red. The 'Status' menu item at the bottom is also circled in red.</p>																												
5	<p>The Status menu shows the Modbus TCP statistics. 10.130.33.50 is the IP address of the RevPi Module. The RevPi has 5 Modbus TCP master.</p>	 <p>The screenshot shows the 'Status' screen with statistics for three clients. The IP address 10.130.33.50 is highlighted for each client.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>IP Address</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>Client</td> <td>10.130.33.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>Client</td> <td>10.130.33.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>Client</td> <td>10.130.33.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	IP Address	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	Client	10.130.33.50:46338	792	4818	66	0	0	Client	10.130.33.50:46340	792	4818	66	0	0	Client	10.130.33.50:46342	792	4818	66	0	0
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Client	10.130.33.50:46342	792	4818	66	0	0																								

Section 6 Setup of the SC1500 Controller Modbus TCP telegram

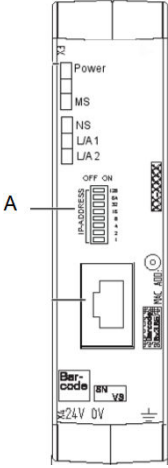
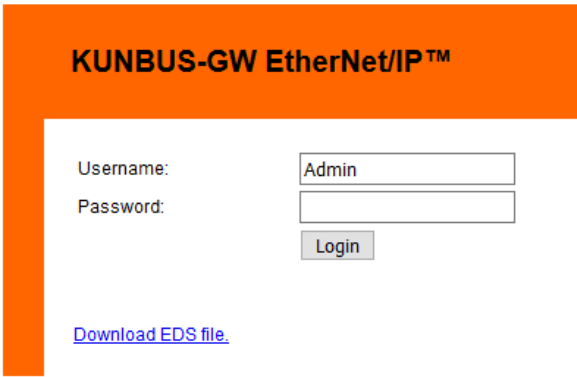
Start the Claros application and follow the step-by-step guide.

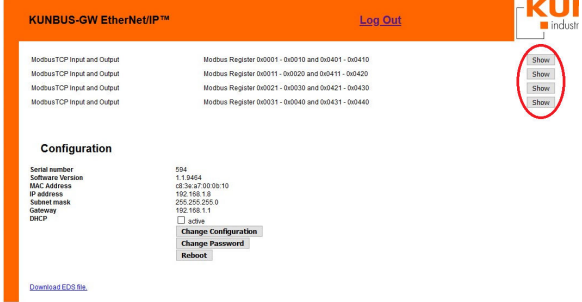
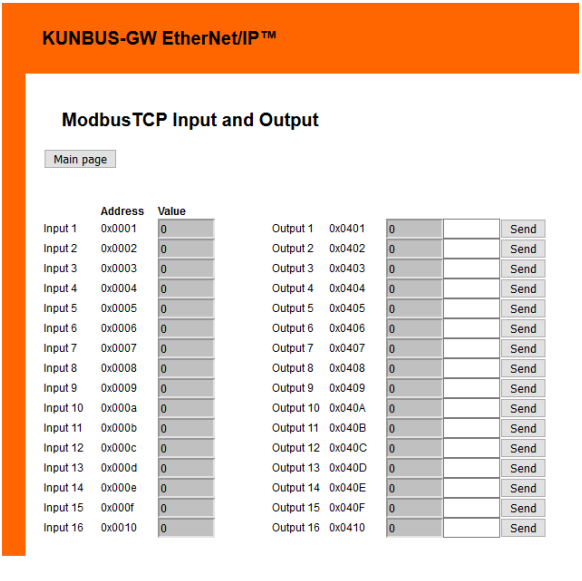
Step	Description	Picture
1	Select the controller menu, then push Modbus TCP .	
2	Select Telegram to set the Modbus TCP telegram.	

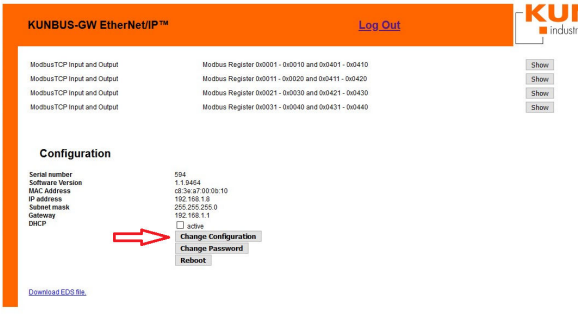

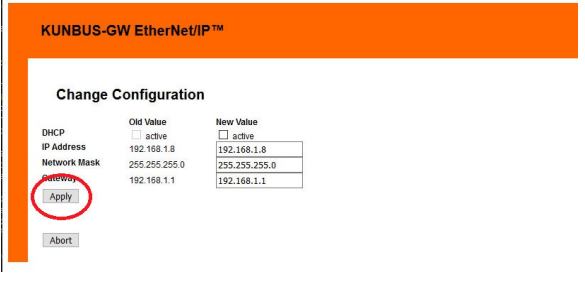
Step	Description	Picture
3	<p>The shown telegram is an example for the LDO sc sensor.</p> <p>Set the Heartbeat to integer.</p> <p>The heartbeat is a counter that shows the update of the value at one second increments.</p> <p><i>Note: The content of the Modbus TCP telegram is the same as the Profibus telegram.</i></p>	<p>The top screenshot shows a configuration screen titled "Telegram". It features a back arrow, a "1 devices" indicator, and a "+ ADD SENSOR" button. A list of sensors is shown, with "LDO 2009 LDO sc" selected. At the bottom are "CANCEL" and "SAVE" buttons.</p> <p>The bottom screenshot shows a configuration screen titled "LDO 2009". It features a back arrow, a "DELETE SENSOR" button, and two tags: "0 Dissolved oxygen [mg/L]" set to "float" and "1 Heartbeat" set to "integer". There is also a "+ ADD NEW TAG" option and "CANCEL" and "OK" buttons at the bottom.</p>

Step	Description	Picture
4	<p>The Modbus TCP menu shows the IP address of the controller. 192.168.178.47 is the IP address set in the controller service menu. Set Modbus TCP to On, then push Status.</p>	 <p>Modbus TCP</p> <p>Modbus TCP On</p> <p>IP address 192.168.178.47</p> <p>TCP Port 502</p> <p>Telegram ></p> <p>Modbus address 1</p> <p>Virtual modbus slave Off</p> <p>Data order Normal ></p> <p>Simulation ></p> <p>Status ></p>
5	<p>The Status menu shows the Modbus TCP statistics. 192.168.178.50 is the IP address of the RevPi Module. The RevPi has 7 Modbus TCP master.</p>	 <p>Status</p> <p>Client 192.168.178.50:46338</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p> <p>Client 192.168.178.50:46340</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p> <p>Client 192.168.178.50:46342</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p>

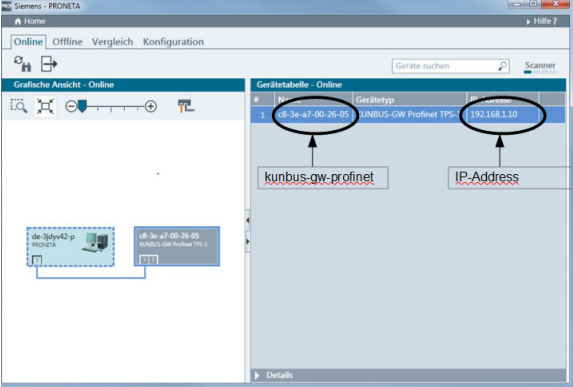
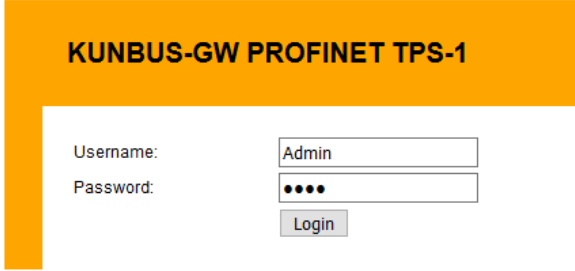
Section 7 Configure the Ethernet/IP Gateway

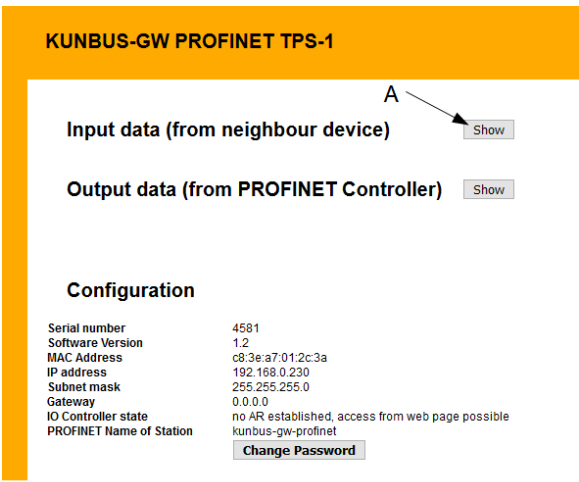
Step	Description	Picture
1	<ul style="list-style-type: none"> Connect the Ethernet/IP Gateway to the PC with the LAN-to-USB adapter cable. Refer to Introduction on page 3. Use the link of the GATEWAY Ethernet/IP Slave. Follow the instruction in the manufacturer's user manual, <i>Gateway component for EtherNet/IP</i>. Use the 8-pin address switch (A) to set the host identifier to the binary format of the Gateway. <ul style="list-style-type: none"> Example: Set the host to 8: 00010000 Open the website http://192.168.1.X (X=Sum of all switches set to ON). 	 <p>The image shows the front panel of the KUNBUS-GW EtherNet/IP gateway. It features several ports and switches: a Power port, MS, NIS, LIA 1, and LIA 2 ports. A label 'A' points to an 8-pin address switch with 'OFF ON' indicators. Below the switch is a barcode and a 'Bar-code' label with 'BIN' and 'V8' fields. At the bottom, there is a '24V 0V' power input section.</p>
2	<p>Open the browser and enter the IP address 192.168.1.X. Login data for the first login: User: Admin Password: 1701 Push Login.</p>	 <p>The screenshot shows the login page for the KUNBUS-GW EtherNet/IP gateway. The page has an orange header with the text 'KUNBUS-GW EtherNet/IP™'. Below the header, there are input fields for 'Username:' (containing 'Admin') and 'Password:'. A 'Login' button is positioned below the password field. At the bottom of the page, there is a blue link that says 'Download EDS file.'</p>

Step	Description	Picture																																																																																					
3	<p>The controller and Ethernet/IP Gateway transfers the data area 0000 - 01BF, which is a range of 448 byte or 112 float or 224 interger or a mix of them, based on the telegram type of the Modbus TCP in the controller.</p> <p><i>Note: Only the first data range to 32 integer show. View all data in the PLC (224 integer).</i></p> <p>Push Show.</p>																																																																																						
4	<p>The selected data area is shown.</p>	 <table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1</td><td>0x0001</td><td>0</td><td>Output 1</td><td>0x0401</td></tr> <tr><td>Input 2</td><td>0x0002</td><td>0</td><td>Output 2</td><td>0x0402</td></tr> <tr><td>Input 3</td><td>0x0003</td><td>0</td><td>Output 3</td><td>0x0403</td></tr> <tr><td>Input 4</td><td>0x0004</td><td>0</td><td>Output 4</td><td>0x0404</td></tr> <tr><td>Input 5</td><td>0x0005</td><td>0</td><td>Output 5</td><td>0x0405</td></tr> <tr><td>Input 6</td><td>0x0006</td><td>0</td><td>Output 6</td><td>0x0406</td></tr> <tr><td>Input 7</td><td>0x0007</td><td>0</td><td>Output 7</td><td>0x0407</td></tr> <tr><td>Input 8</td><td>0x0008</td><td>0</td><td>Output 8</td><td>0x0408</td></tr> <tr><td>Input 9</td><td>0x0009</td><td>0</td><td>Output 9</td><td>0x0409</td></tr> <tr><td>Input 10</td><td>0x000A</td><td>0</td><td>Output 10</td><td>0x040A</td></tr> <tr><td>Input 11</td><td>0x000b</td><td>0</td><td>Output 11</td><td>0x040B</td></tr> <tr><td>Input 12</td><td>0x000c</td><td>0</td><td>Output 12</td><td>0x040C</td></tr> <tr><td>Input 13</td><td>0x000d</td><td>0</td><td>Output 13</td><td>0x040D</td></tr> <tr><td>Input 14</td><td>0x000e</td><td>0</td><td>Output 14</td><td>0x040E</td></tr> <tr><td>Input 15</td><td>0x000f</td><td>0</td><td>Output 15</td><td>0x040F</td></tr> <tr><td>Input 16</td><td>0x0010</td><td>0</td><td>Output 16</td><td>0x0410</td></tr> </tbody> </table>	Address	Value				Input 1	0x0001	0	Output 1	0x0401	Input 2	0x0002	0	Output 2	0x0402	Input 3	0x0003	0	Output 3	0x0403	Input 4	0x0004	0	Output 4	0x0404	Input 5	0x0005	0	Output 5	0x0405	Input 6	0x0006	0	Output 6	0x0406	Input 7	0x0007	0	Output 7	0x0407	Input 8	0x0008	0	Output 8	0x0408	Input 9	0x0009	0	Output 9	0x0409	Input 10	0x000A	0	Output 10	0x040A	Input 11	0x000b	0	Output 11	0x040B	Input 12	0x000c	0	Output 12	0x040C	Input 13	0x000d	0	Output 13	0x040D	Input 14	0x000e	0	Output 14	0x040E	Input 15	0x000f	0	Output 15	0x040F	Input 16	0x0010	0	Output 16	0x0410
Address	Value																																																																																						
Input 1	0x0001	0	Output 1	0x0401																																																																																			
Input 2	0x0002	0	Output 2	0x0402																																																																																			
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Input 15	0x000f	0	Output 15	0x040F																																																																																			
Input 16	0x0010	0	Output 16	0x0410																																																																																			

Step	Description	Picture															
5	<p>Push Change Configuration to set the IP address.</p>	 <p>KUNBUS-GW EtherNet/IP™ Log Out </p> <p>Modbus TCP Input and Output Modbus Register 0x0001 - 0x0010 and 0x0401 - 0x0410 Show</p> <p>Modbus TCP Input and Output Modbus Register 0x0011 - 0x0020 and 0x0411 - 0x0420 Show</p> <p>Modbus TCP Input and Output Modbus Register 0x0021 - 0x0030 and 0x0421 - 0x0430 Show</p> <p>Modbus TCP Input and Output Modbus Register 0x0031 - 0x0040 and 0x0431 - 0x0440 Show</p> <p>Configuration</p> <p>Serial number: 994 Software Version: 1.1.0454 MAC Address: 08:3e:27:0b:2b:10 IP Address: 192.168.1.8 Subnet mask: 255.255.255.0 Gateway: 192.168.1.1 DHCP: <input type="checkbox"/> active</p> <p>Change Configuration (indicated by a red arrow)</p> <p>Change Password Reboot</p> <p>Download FCS file</p>															
6	<p>Change the IP address according to the gateway address.</p> <p>Push Apply to confirm.</p> <p>Set all dip switches to off.</p> <p>Set the power of the gateway to off, then restart. The new IP Address is now used.</p>	 <p>KUNBUS-GW EtherNet/IP™</p> <p>Change Configuration</p> <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td><input checked="" type="checkbox"/> active</td> <td><input type="checkbox"/> active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table> <p>Apply (circled in red)</p> <p>Abort</p>		Old Value	New Value	DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0	Gateway	192.168.1.1	192.168.1.1
	Old Value	New Value															
DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active															
IP Address	192.168.1.8	192.168.1.8															
Network Mask	255.255.255.0	255.255.255.0															
Gateway	192.168.1.1	192.168.1.1															

Section 8 Configure the Profinet Gateway

Step	Description	Picture
1	<ul style="list-style-type: none"> Connect the Profinet Gateway to the PC with the LAN-to-LAN adapter. Refer to Introduction on page 3. Use the link of the GATEWAY Profinet IRT Slave. Follow the instruction in the manufacturer's user manual <i>Gateway Component for PROFINET</i>. Use the software PRONETA to set the name to kunbus-gw-profinet. Enter the used IP address. 	
2	<p>Open the browser and enter the IP address. Login data for first login: User: Admin Password: 1701 Push Login.</p>	

Step	Description	Picture																
3	Push Show (A) to show the input data.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
Serial number	4581																	
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Step	Description	Picture																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
4	<p>Shows all data sent from the controller to the Profinet Gateway.</p> <p>The controller and Profinet Gateway transfers the data area 0000 - 01BF, which is a range of 448 byte or 112 float or 224 interger or a mix of them, based on the telegram type of the Modbus TCP in the controller.</p>	<p style="text-align: center;">KUNBUS-GW PROFINET TPS-1</p> <p style="text-align: center;">Input (from neighbour device)</p> <p style="text-align: center;">Main page</p> <table border="1"> <thead> <tr> <th>Address</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Section 9 Troubleshooting

9.1 Troubleshooting RevPi

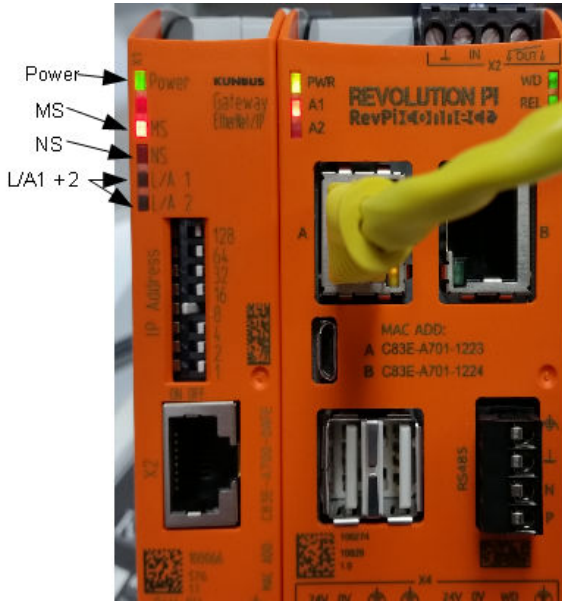
Figure 4 RevPi Basic module



Message	Description	Solution
LED A2 flashes red.	The communication has stopped.	<ul style="list-style-type: none">• Connect the network cable (cable or router).• Set the Modbus address setting in Claros to 1.• Set the Modbus TCP in Claros menu to on.
LED A3 slowly flashes red.	The configuration of the Ethernet/IP and Profinet Gateway is mixed up.	Refer to Start the USB configuration on page 5, step 4 and select the correct Gateway type: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Troubleshooting Ethernet/IP

Figure 5 Ethernet/IP Gateway

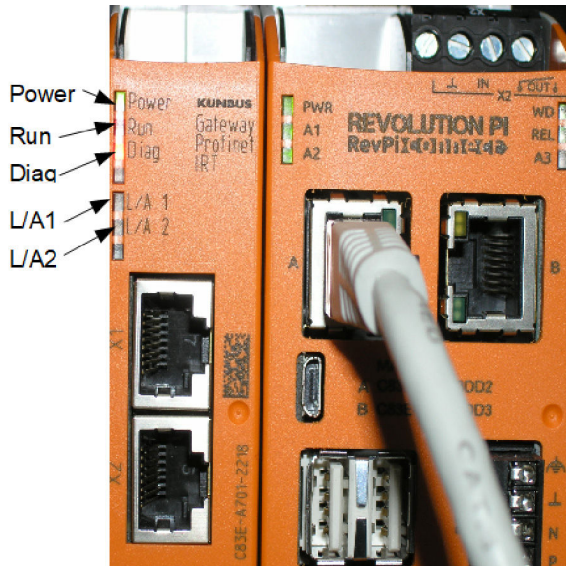


Message	Description	Solution
Power LED is off.	The Ethernet/IP gateway is set to off.	Set the power to on.
Power LED flashes green.	The start up procedure is not complete.	Wait a few minutes.
Power LED flashes red.	Shows a warning.	Examine if all of the devices are connected.
Power LED is red.	Shows an error.	The Ethernet/IP gateway is defective. Replace the Ethernet/IP gateway.
MS LED is off.	The Ethernet/IP gateway is set to off.	Set power to on.
MS LED flashes green.	The configuration procedure is not complete.	Wait a few minutes.
MS LED flashes red.	Shows a configuration error.	Refer to Configure the Ethernet/IP Gateway on page 15 to examine the configuration.
MS LED is red.	Shows an error.	The Ethernet/IP gateway is defective. Replace the Ethernet/IP gateway.
MS LED flashes red and green.	The self test is not complete.	Wait a few minutes.

Message	Description	Solution
NS LED is off.	The Ethernet/IP gateway is set to off or has no IP address.	Set power to on. Set the IP address.
NS LED flashes green.	The IP address is set but the CIP connection is not established.	Wait a few minutes.
NS LED flashes red.	The CIP connection has stopped.	Examine if there is a timeout.
NS LED is red.	The selected IP address is used by another device.	Change the IP address to a unique IP address.
L/A 1 or 2 LED is off.	There is no connection to other devices.	Connect to a device.
L/A 1 or 2 LED flashes green.	No data exchange.	Wait until the next data exchange.

9.3 Troubleshooting Profinet

Figure 6 Profinet Gateway



Message	Description	Solution
Power LED is off.	The Profinet gateway is off.	Set power to on.
Power LED flashes green.	The start up procedure is not completed.	Wait a few minutes.
Power LED flashes red.	Shows a warning.	Examine if all of the devices are installed.
Power LED is red.	Shows an error.	The Profinet gateway is defective. Replace the Profinet gateway.

Message	Description	Solution
Run LED is off.	No connection to a network.	Connect to network.
Run LED flashes green.	Profinet controller is connected but no data exchange.	Wait until the next data exchange.
Run LED flashes slowly green.	Triggered by tool for identification of the gateway component.	Wait a few minutes.
Diag LED flashes red.	Triggered by tool for identification of the gateway component.	Wait a few minutes.
Diag LED flashes fast red.	No connection to the controller. No Profinet name set in the module.	Refer to Configure the Profinet Gateway on page 18 to set the name.
Diag LED is red.	A Gateway device reports diagnosis data.	Refer to the diagnostic report.
L/A 1 or 2 LED is off.	No connection to a network.	Connect to network.
L/A 1 or 2 LED flashes green.	Data exchange.	Wait until the data exchange is complete.

Inhaltsverzeichnis

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| 2 Einführung auf Seite 25 | 7 Konfiguration des Ethernet/IP-Gateways auf Seite 38 |
| 3 Start der USB-Konfiguration auf Seite 27 | 8 Konfiguration des Profinet-Gateways auf Seite 41 |
| 4 Installationsbeispiele auf Seite 29 | 9 Fehlerbehebung auf Seite 44 |
| 5 Einrichtung des Modbus-TCP-Telegramms beim SC4200c Controller auf Seite 32 | |

Kapitel 1 Bestimmungsgemäßer Gebrauch

Diese Setup-Anweisungen sind für Personen vorgesehen, die ein externes Ethernet/IP-Gateway oder Profinet-Gateway als Hardwarekomponenten im Claros Netzwerk integrieren.

Kapitel 2 Einführung

Der Hersteller ist nicht für Schäden verantwortlich, die durch Fehlanwendung oder Missbrauch dieses Produkts entstehen, einschließlich, aber ohne Beschränkung auf direkte, zufällige oder Folgeschäden, und lehnt jegliche Haftung im gesetzlich zulässigen Umfang ab. Der Benutzer ist selbst dafür verantwortlich, schwerwiegende Anwendungsrisiken zu erkennen und erforderliche Maßnahmen durchzuführen, um die Prozesse im Fall von möglichen Gerätefehlern zu schützen.

⚠ GEF AHR	
	Lebensgefahr durch Stromschlag. Trennen Sie das Gerät immer von der Spannungsversorgung, bevor Sie elektrische Anschlüsse herstellen.

Erforderliche Artikel:

- USB-Stick mit FAT32-Formatierung
- PC mit Windows¹ 10
- Modul:
 - Für die Ethernet/IP-Implementierung:
 - LXZ446.99.00001: GATEWAY IloT RevPi Grundmodul
 - LXZ446.99.00002: GATEWAY Ethernet/IP Slave
 - LXZ446.99.00003: Jumper für PiBridge
 - Für die Profinet-Implementierung:
 - LXZ446.99.00001: GATEWAY IloT RevPi Grundmodul
 - LXZ446.99.00007: GATEWAY Profinet-IRT-Slave
 - LXZ446.99.00003: Jumper für PiBridge

Schließen Sie die drei Module RevPi, Slave und PiBridge an die Stromversorgung und ein LAN an. Weitere Informationen vom Hersteller der Module finden Sie unter den Links in der folgenden Tabelle.

Modul	Link
GATEWAY Profinet-IRT Slave	https://www.kunbus.com/profinet-irt-gateway-module.html
GATEWAY Ethernet/IP Slave	https://www.kunbus.com/ethernet-ip-gateway-module.html

¹ Microsoft® Windows® ist ein eingetragenes Warenzeichen der Microsoft Corporation in den USA und anderen Ländern.

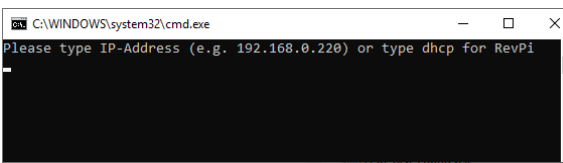
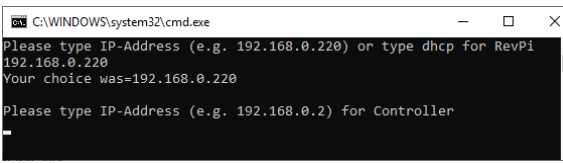
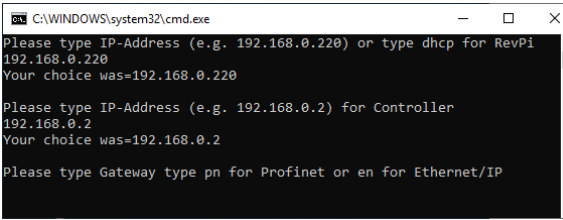
Modul	Link
GATEWAY IIoT RevPi Grundmodul	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
Anschließen von RevPi Modulen	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Installieren von RevPi Modulen auf einer DIN-Schiene	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Anschließen des Netzteils	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

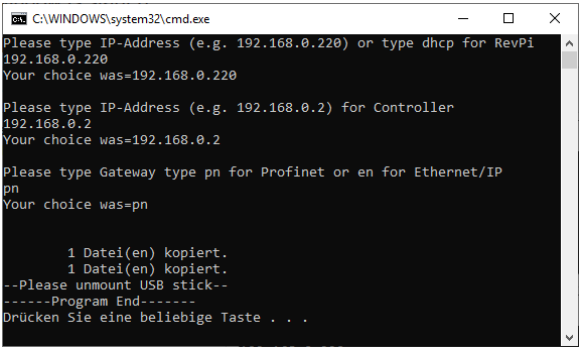

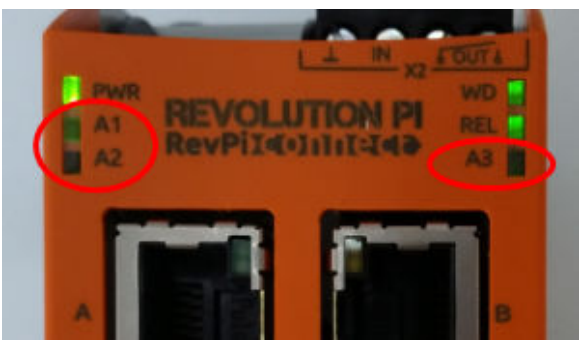
Vorbereitung des USB-Sticks

1. Stecken Sie einen leeren USB-Stick in den PC.
2. Gehen Sie zu <https://www.hach.com> und suchen Sie nach den Schlüsselwörtern „USB-Ethernet/IP-Installation“ oder „USB-Profinet-Installation“.
3. Laden Sie die Datei USB_ETHIP_PRNET.zip herunter.
4. Entpacken Sie die Datei in das Stammverzeichnis des USB-Sticks.

Kapitel 3 Start der USB-Konfiguration

Stecken Sie den vorbereiteten USB-Stick in den PC ein.

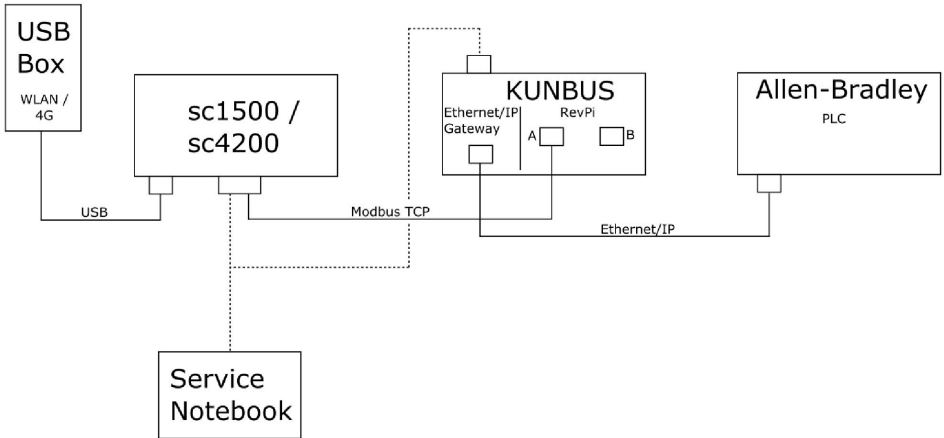
Schritt	Beschreibung	Bild
1	Öffnen Sie die Datei start_usb_config.bat. Ein Benutzerfenster wird geöffnet. Befolgen Sie die Schritt-für-Schritt-Anleitung.	
2	Geben Sie die IP-Adresse des RevPi Moduls ein.	
3	Geben Sie die IP-Adresse des SC Controllers ein. Stellen Sie sicher, dass das Netzwerkpräfix mit jenem des RevPi Moduls übereinstimmt (z.B. 192.168.0). Stellen Sie sicher, dass sich die Host-ID vom RevPi Modul unterscheidet (z.B. 220 für RevPi, 2 für Controller).	
4	Geben Sie den Gateway-Typ ein: <ul style="list-style-type: none">• pn – Profinet• en – Ethernet/IP	

Schritt	Beschreibung	Bild
5	<p>Bestätigen Sie die Einstellungen mit der Eingabetaste. Ziehen Sie den USB-Stick ab.</p>	 <pre> C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi 192.168.0.220 Your choice was=192.168.0.220 Please type IP-Address (e.g. 192.168.0.2) for Controller 192.168.0.2 Your choice was=192.168.0.2 Please type Gateway type pn for Profinet or en for Ethernet/IP pn Your choice was=pn 1 Datei(en) kopiert. 1 Datei(en) kopiert. --Please unmount USB stick-- -----Program End----- Drücken Sie eine beliebige Taste . . . </pre>
6	<p>Stecken Sie den USB-Stick in die linke USB-Buchse des RevPi Moduls.</p>	
7	<p>LED-Beschreibung:</p> <ul style="list-style-type: none"> • A1/A2 orange: Installation von RevPi wird gestartet. • A1 rot, A2 aus: USB-Stick in das RevPi stecken. • A1 grün, A2 aus: USB-Stick erfolgreich eingesteckt. • A1 aus, A2 grün: RevPi lädt Daten vom/auf den USB-Stick herunter/hoch. • A3 rot: RevPi wird neu gestartet. <p>Wenn A3 rot ist, entfernen Sie den USB-Stick.</p>	
8	<p>Die RevPi Einstellungen sind abgeschlossen.</p>	

Kapitel 4 Installationsbeispiele

Abbildung 1 zeigt eine Installation mit zwei verschiedenen LAN-Verbindungen.

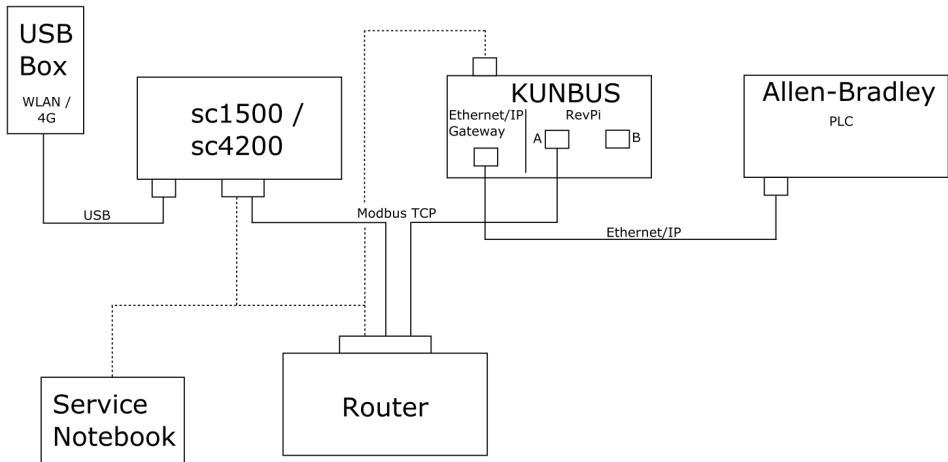
Abbildung 1 Beispiel 1



- Modbus-TCP und Ethernet/IP verwenden zwei verschiedene LAN-Verbindungen.
- Alle Geräte verfügen über eine statische IP-Adresse.
- Der Controller verfügt über einen Internetzugang über WLAN oder eine Mobilfunkverbindung.
- Um die IP-Adressen des Controllers und des Ethernet/IP-Gateways einzurichten, ist ein Laptop erforderlich.

Abbildung 2 zeigt eine Installation mit einem Router für die Modbus-TCP-Verbindung an.

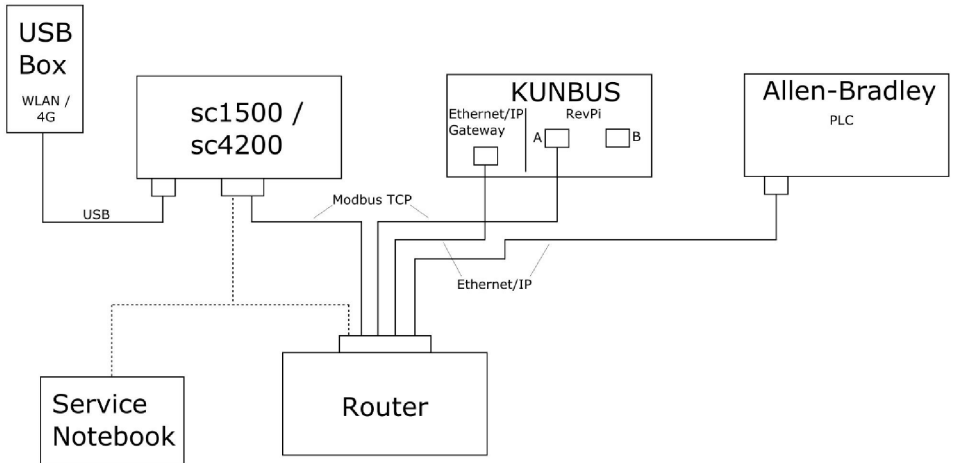
Abbildung 2 Beispiel 2



- Das Modbus-TCP ist mit einem Router verbunden.
- Alle Geräte verfügen über eine statische IP-Adresse, oder der Router legt die IP-Adresse über DHCP fest.
Hinweis: Stellen Sie sicher, dass der Router immer dieselbe IP-Adresse für die gleichen Geräte (MAC) verwendet, wenn DHCP verwendet wird.
- Der Controller verfügt über einen Internetzugang über WLAN oder eine Mobilfunkverbindung.
- Um die IP-Adresse des Controllers, das Ethernet/IP-Gateway und die Routereinstellungen einzurichten, ist ein Laptop erforderlich.

Abbildung 3 zeigt eine Installation mit einem Router oder Switch für alle Geräte an.

Abbildung 3 Beispiel 3

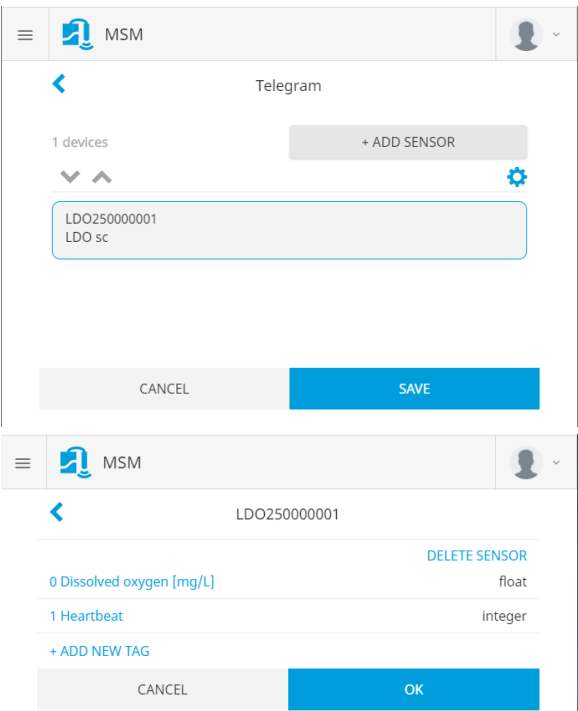


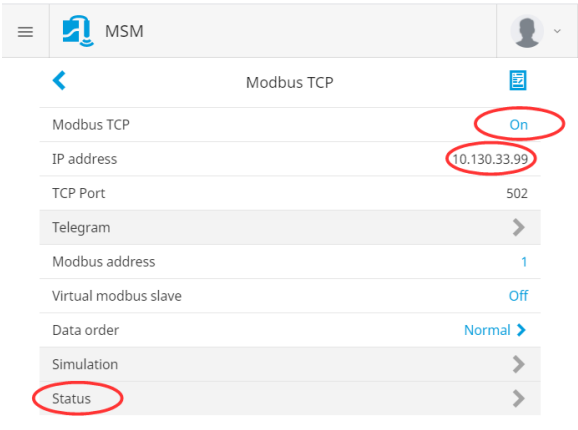
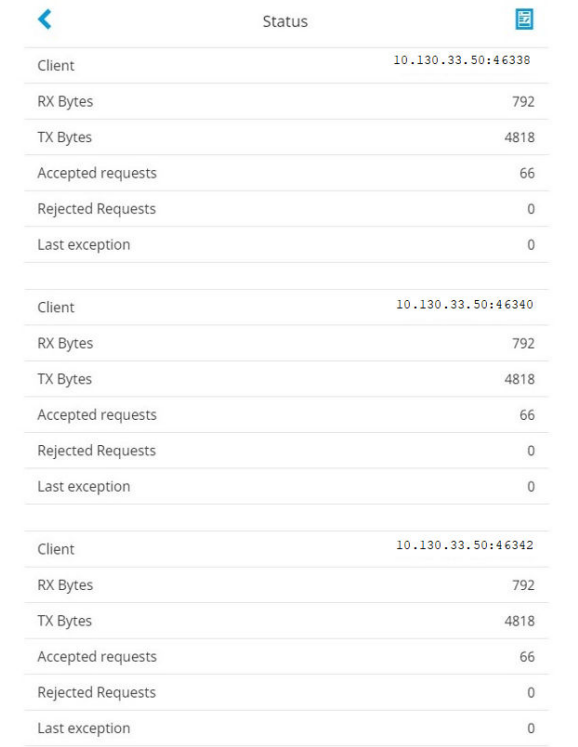
- Alle Geräte sind mit einem Router oder Switch verbunden.
- Alle Geräte verfügen über eine statische IP-Adresse, oder der Router oder Switch stellt die IP-Adresse über DHCP ein.
Hinweis: Stellen Sie sicher, dass der Router immer dieselbe IP-Adresse für die gleichen Geräte (MAC) verwendet, wenn DHCP verwendet wird.
- Der Controller verfügt über einen Internetzugang über WLAN oder eine Mobilfunkverbindung.
- Um die IP-Adresse des Controllers und die Routereinstellungen einzurichten, ist ein Laptop erforderlich.

Kapitel 5 Einrichtung des Modbus-TCP-Telegramms beim SC4200c Controller

Starten Sie die Claros Anwendung und befolgen Sie die Schritt-für-Schritt-Anleitung.


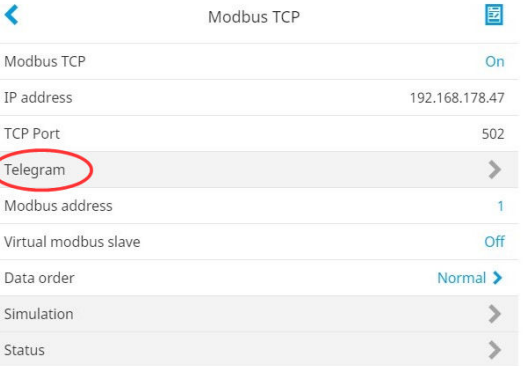
Schritt	Beschreibung	Bild
1	Wählen Sie das Controller-Menü aus, und drücken Sie Modbus TCP (Modbus-TCP) .	<p>The screenshot shows the main menu of the SC4200c controller. At the top, it displays '1732216 - sc4200c'. Below this, there is a notification bar for a software update. A list of modules is shown, including '1761925 - SOLITAX sc', 'LDO250000001 - LDO sc', and '00000001185 - Low voltage relay'. At the bottom, there are menu options for 'Historical data' and 'Modbus TCP', with the latter being circled in red.</p>
2	Wählen Sie Telegram (Telegramm) , um das Modbus-TCP-Telegramm einzustellen.	<p>The screenshot shows the configuration screen for 'Modbus TCP'. The status is 'On'. Configuration parameters include IP address (10.130.33.99), TCP Port (502), Modbus address (1), and Virtual modbus slave (Off). The 'Telegram' option is circled in red, indicating the next step in the setup process.</p>

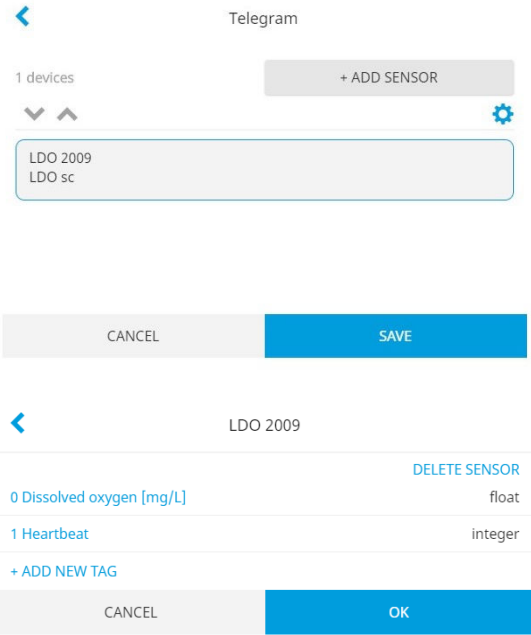
Schritt	Beschreibung	Bild
3	<p>Das angezeigte Telegramm ist ein Beispiel für den LDO sc Sensor. Stellen Sie den Heartbeat auf ganze Zahlen ein. Der Heartbeat ist ein Zähler, der die Aktualisierung des Werts in Schritten von einer Sekunde anzeigt.</p> <p><i>Hinweis: Der Inhalt des Modbus-TCP-Telegramms ist mit jenem des Profibus-Telegramms identisch.</i></p>	 <p>The image contains two screenshots from the MSM (Modbus Slave Manager) interface. The top screenshot shows the 'Telegram' configuration screen. At the top, there is a menu icon, the MSM logo, and a user profile icon. Below this, there is a back arrow and the title 'Telegram'. Underneath, it says '1 devices' and there is a '+ ADD SENSOR' button. A list of devices is shown, with 'LDO250000001' and 'LDO sc' selected. At the bottom, there are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the configuration for the 'LDO250000001' sensor. It has a back arrow and the title 'LDO250000001'. There is a 'DELETE SENSOR' link. Below, there are two entries: '0 Dissolved oxygen [mg/L]' with a 'float' data type, and '1 Heartbeat' with an 'integer' data type. There is also a '+ ADD NEW TAG' link. At the bottom, there are 'CANCEL' and 'OK' buttons.</p>

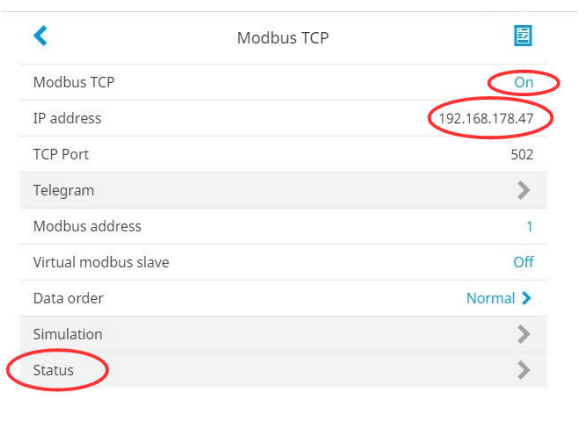
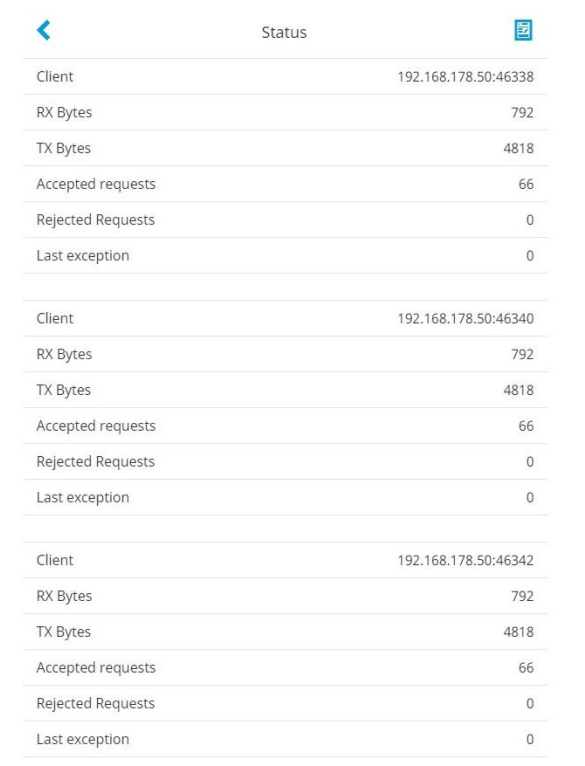
Schritt	Beschreibung	Bild																								
4	<p>Das Modbus-TCP-Menü zeigt die IP-Adresse des Controllers an.</p> <p>10.130.33.99 ist die IP-Adresse, die im Wartungsmenü des Controllers festgelegt wurde.</p> <p>Setzen Sie Modbus-TCP auf On (Ein), und drücken Sie dann auf Status.</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. The 'On' toggle is circled in red. The IP address '10.130.33.99' is also circled in red. The 'Status' menu item at the bottom is circled in red.</p>																								
5	<p>Im Statusmenü werden die Modbus-TCP-Statistiken angezeigt. 10.130.33.50 ist die IP-Adresse des RevPi Moduls. Das RevPi verfügt über 5 Modbus-TCP-Master.</p>	 <p>The screenshot shows the 'Status' screen with statistics for three clients. The IP address '10.130.33.50' is highlighted for each client.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>10.130.33.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	10.130.33.50:46338	792	4818	66	0	0	10.130.33.50:46340	792	4818	66	0	0	10.130.33.50:46342	792	4818	66	0	0
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10.130.33.50:46342	792	4818	66	0	0																					

Kapitel 6 Einrichtung des Modbus-TCP-Telegramms beim SC1500 Controller

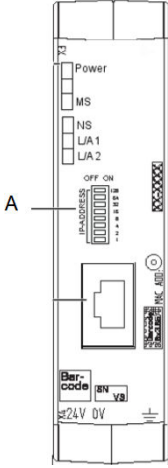
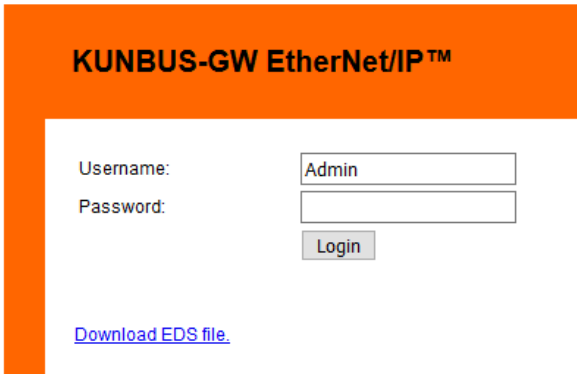
Starten Sie die Claros Anwendung und befolgen Sie die Schritt-für-Schritt-Anleitung.

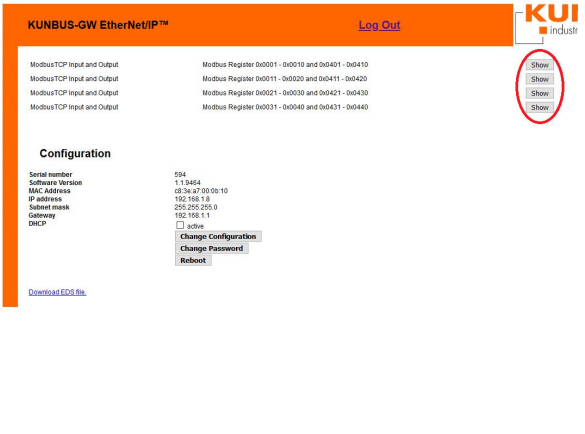
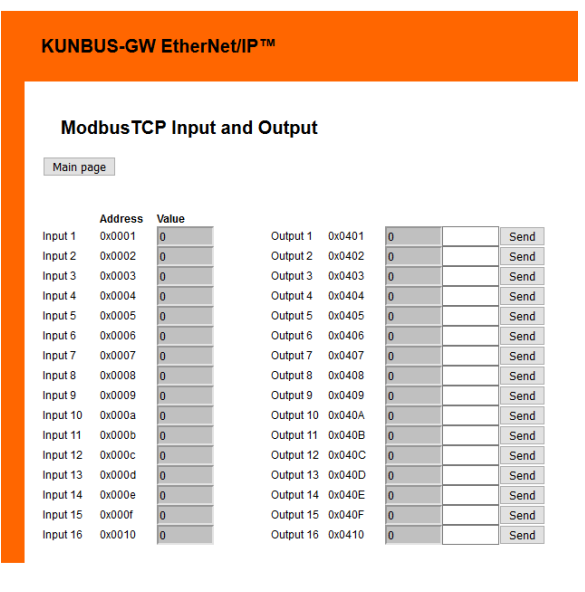
Schritt	Beschreibung	Bild
1	Wählen Sie das Controller-Menü aus, und drücken Sie Modbus TCP (Modbus-TCP) .	 <p>The screenshot shows the main menu of the SC1500 Controller. At the top, it displays '1694389 - sc1500'. Below this, there are three main menu items: '1 1327087 - AN-ISE sc', '2 1555058 - AN-ISE sc', and '3 LDO 2009 - LDO sc'. To the right of these items is a small image of the controller and its specifications: 'v20.12', '3 Sensors', '1 Outputs', and '1 Profibus'. Below the main menu items, there are two additional options: '00000074854 - mA output' and '000005009872 - Profibus'. At the bottom, there are two menu items: 'Historical data' and 'Modbus TCP', both with right-pointing arrows. The 'Modbus TCP' item is circled in red.</p>
2	Wählen Sie Telegram (Telegramm) , um das Modbus-TCP-Telegramm einzustellen.	 <p>The screenshot shows the configuration screen for 'Modbus TCP'. At the top, it displays 'Modbus TCP' and a blue document icon. Below this, there are several configuration items: 'Modbus TCP' (status: On), 'IP address' (value: 192.168.178.47), 'TCP Port' (value: 502), 'Telegram' (with a right-pointing arrow, circled in red), 'Modbus address' (value: 1), 'Virtual modbus slave' (status: Off), 'Data order' (value: Normal, with a right-pointing arrow), 'Simulation' (with a right-pointing arrow), and 'Status' (with a right-pointing arrow).</p>

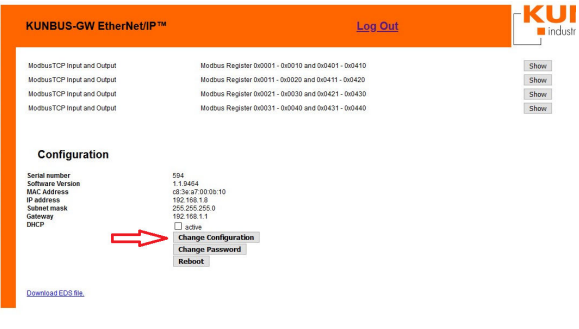
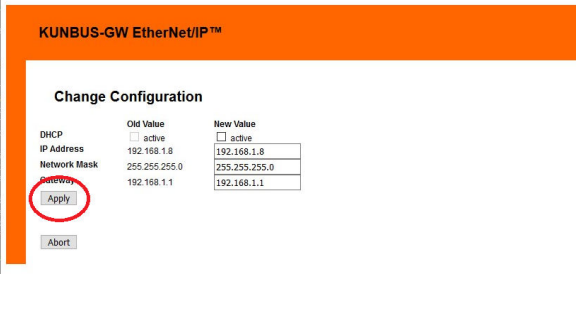
Schritt	Beschreibung	Bild
3	<p>Das angezeigte Telegramm ist ein Beispiel für den LDO sc Sensor. Stellen Sie den Heartbeat auf ganze Zahlen ein. Der Heartbeat ist ein Zähler, der die Aktualisierung des Werts in Schritten von einer Sekunde anzeigt.</p> <p><i>Hinweis: Der Inhalt des Modbus-TCP-Telegramms ist mit jenem des Profibus-Telegramms identisch.</i></p>	 <p>The image contains two screenshots from a configuration application. The top screenshot is titled 'Telegram' and shows a list of sensors: 'LDO 2009' and 'LDO sc'. There is a '+ ADD SENSOR' button and a gear icon for settings. At the bottom are 'CANCEL' and 'SAVE' buttons. The bottom screenshot is titled 'LDO 2009' and shows two sensor tags: '0 Dissolved oxygen [mg/L]' with a 'float' data type, and '1 Heartbeat' with an 'integer' data type. There is a 'DELETE SENSOR' link and a '+ ADD NEW TAG' button. At the bottom are 'CANCEL' and 'OK' buttons.</p>

Schritt	Beschreibung	Bild																								
4	<p>Das Modbus-TCP-Menü zeigt die IP-Adresse des Controllers an. 192.168.178.47 ist die IP-Adresse, die im Wartungsmenü des Controllers festgelegt wurde.</p> <p>Setzen Sie Modbus-TCP auf On (Ein), und drücken Sie dann auf Status.</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. The 'Modbus TCP' toggle is set to 'On'. The 'IP address' is '192.168.178.47'. The 'TCP Port' is '502'. The 'Telegram' field is empty. The 'Modbus address' is '1'. The 'Virtual modbus slave' is 'Off'. The 'Data order' is 'Normal'. The 'Simulation' toggle is off. The 'Status' option is highlighted with a red circle.</p>																								
5	<p>Im Statusmenü werden die Modbus-TCP-Statistiken angezeigt. 192.168.178.50 ist die IP-Adresse des RevPi Moduls. Das RevPi verfügt über 7 Modbus-TCP-Master.</p>	 <p>The screenshot shows the 'Status' screen with statistics for three clients. The first client is at IP 192.168.178.50:46338, the second at 192.168.178.50:46340, and the third at 192.168.178.50:46342. Each client shows RX Bytes, TX Bytes, Accepted requests, Rejected Requests, and Last exception.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>192.168.178.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	192.168.178.50:46338	792	4818	66	0	0	192.168.178.50:46340	792	4818	66	0	0	192.168.178.50:46342	792	4818	66	0	0
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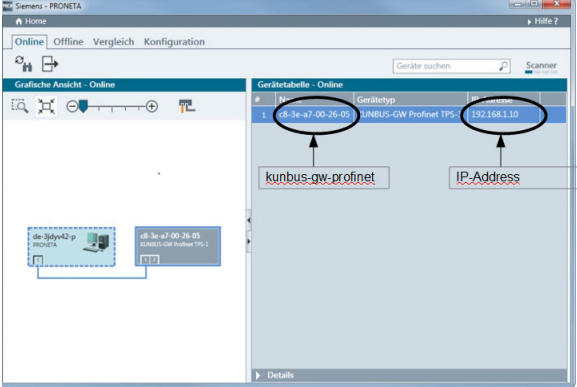
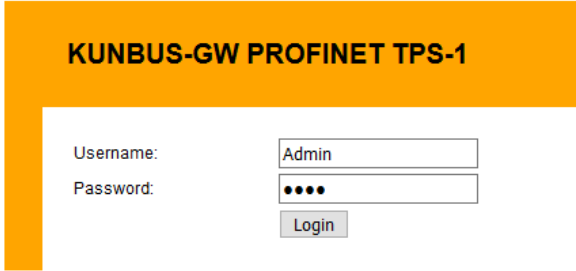
Kapitel 7 Konfiguration des Ethernet/IP-Gateways

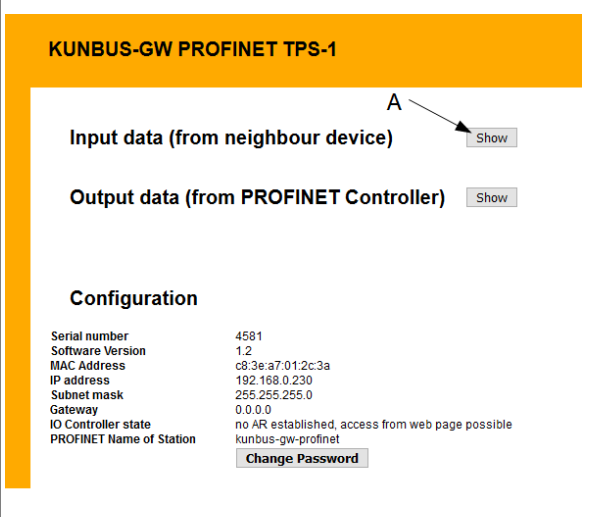
Schritt	Beschreibung	Bild
1	<ul style="list-style-type: none"> Schließen Sie das Ethernet/IP-Gateway über das LAN-zu-USB-Adapterkabel an den PC an. Siehe Einführung auf Seite 25. Nutzen Sie den Link des GATEWAY Ethernet/IP Slave. Befolgen Sie die Anweisungen im Benutzerhandbuch des Herstellers <i>Gateway-Komponente für EtherNet/IP</i>. Verwenden Sie den 8-poligen Adressschalter (A), um die Host-ID im Binärformat des Gateways festzulegen. <ul style="list-style-type: none"> Beispiel: Legen Sie den Host auf 8 fest: 00010000. Öffnen Sie die Website http://192.168.1.X (X = Summe aller Schalter auf EIN). 	 <p>The image shows the front panel of the KUNBUS-GW EtherNet/IP gateway. It features a power switch labeled 'Power', a master/slave switch 'MS', and network indicator lights 'NS', 'LIA 1', and 'LIA 2'. A central 8-bit address switch, labeled 'A', is used to set the host ID in binary format. Below the address switch is a 'Ber. Code' section with 'BIN' and 'VA' indicators. At the bottom, there is a '24V DV' power source and a ground symbol.</p>
2	<p>Öffnen Sie den Browser und geben Sie die IP-Adresse 192.168.1.X ein. Anmeldeinformationen für die Erstanmeldung:</p> <p>Benutzer: Admin Passwort: 1701</p> <p>Drücken Sie auf Login (Anmelden).</p>	 <p>The screenshot shows the login interface for the KUNBUS-GW EtherNet/IP gateway. The page has an orange header with the text 'KUNBUS-GW EtherNet/IP™'. Below the header is a login form with two input fields: 'Username:' containing 'Admin' and 'Password:' containing '1701'. A 'Login' button is positioned below the password field. At the bottom of the page, there is a blue link that says 'Download EDS file.'</p>

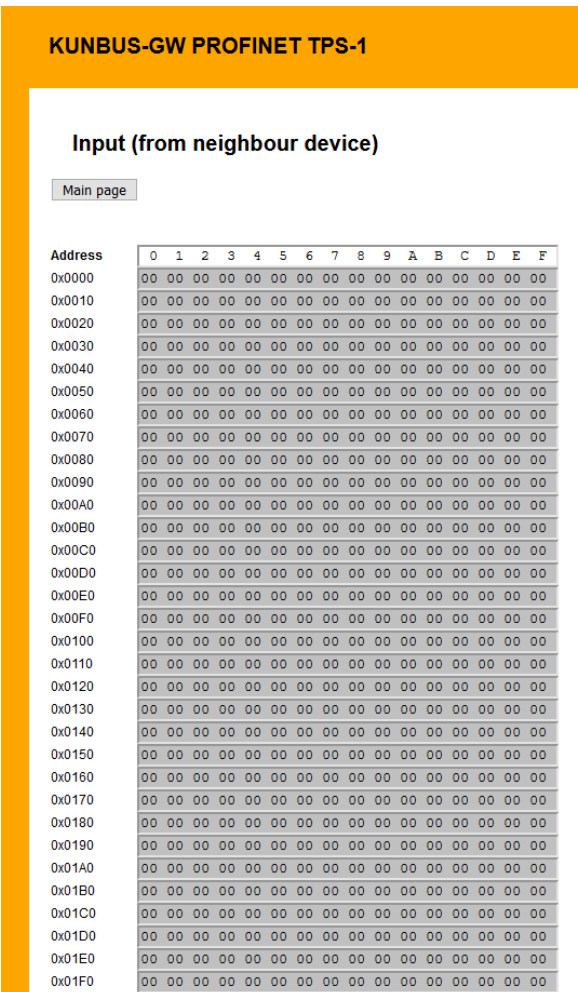
Schritt	Beschreibung	Bild																																																																																																																					
3	<p>Der Controller und das Ethernet/IP-Gateway übertragen den Datenbereich 0000 - 01BF, d.h. einen Bereich von 448 Byte oder 112 Float oder 224 Integer oder eine Kombination daraus, basierend auf dem Telegrammtyp des Modbus-TCP im Controller.</p> <p><i>Hinweis: Nur der erste Datenbereich bis 32 Integer wird angezeigt. Lassen Sie sich alle Daten in der SPS anzeigen (224 Integer).</i></p> <p>Drücken Sie auf Show (Anzeigen).</p>																																																																																																																						
4	<p>Der ausgewählte Datenbereich wird angezeigt.</p>	 <table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1</td><td>0x0001</td><td>0</td><td>Output 1</td><td>0x0401</td><td>0</td><td>Send</td></tr> <tr><td>Input 2</td><td>0x0002</td><td>0</td><td>Output 2</td><td>0x0402</td><td>0</td><td>Send</td></tr> <tr><td>Input 3</td><td>0x0003</td><td>0</td><td>Output 3</td><td>0x0403</td><td>0</td><td>Send</td></tr> <tr><td>Input 4</td><td>0x0004</td><td>0</td><td>Output 4</td><td>0x0404</td><td>0</td><td>Send</td></tr> <tr><td>Input 5</td><td>0x0005</td><td>0</td><td>Output 5</td><td>0x0405</td><td>0</td><td>Send</td></tr> <tr><td>Input 6</td><td>0x0006</td><td>0</td><td>Output 6</td><td>0x0406</td><td>0</td><td>Send</td></tr> <tr><td>Input 7</td><td>0x0007</td><td>0</td><td>Output 7</td><td>0x0407</td><td>0</td><td>Send</td></tr> <tr><td>Input 8</td><td>0x0008</td><td>0</td><td>Output 8</td><td>0x0408</td><td>0</td><td>Send</td></tr> <tr><td>Input 9</td><td>0x0009</td><td>0</td><td>Output 9</td><td>0x0409</td><td>0</td><td>Send</td></tr> <tr><td>Input 10</td><td>0x000a</td><td>0</td><td>Output 10</td><td>0x040a</td><td>0</td><td>Send</td></tr> <tr><td>Input 11</td><td>0x000b</td><td>0</td><td>Output 11</td><td>0x040b</td><td>0</td><td>Send</td></tr> <tr><td>Input 12</td><td>0x000c</td><td>0</td><td>Output 12</td><td>0x040c</td><td>0</td><td>Send</td></tr> <tr><td>Input 13</td><td>0x000d</td><td>0</td><td>Output 13</td><td>0x040d</td><td>0</td><td>Send</td></tr> <tr><td>Input 14</td><td>0x000e</td><td>0</td><td>Output 14</td><td>0x040e</td><td>0</td><td>Send</td></tr> <tr><td>Input 15</td><td>0x000f</td><td>0</td><td>Output 15</td><td>0x040f</td><td>0</td><td>Send</td></tr> <tr><td>Input 16</td><td>0x0010</td><td>0</td><td>Output 16</td><td>0x0410</td><td>0</td><td>Send</td></tr> </tbody> </table>	Address	Value				Input 1	0x0001	0	Output 1	0x0401	0	Send	Input 2	0x0002	0	Output 2	0x0402	0	Send	Input 3	0x0003	0	Output 3	0x0403	0	Send	Input 4	0x0004	0	Output 4	0x0404	0	Send	Input 5	0x0005	0	Output 5	0x0405	0	Send	Input 6	0x0006	0	Output 6	0x0406	0	Send	Input 7	0x0007	0	Output 7	0x0407	0	Send	Input 8	0x0008	0	Output 8	0x0408	0	Send	Input 9	0x0009	0	Output 9	0x0409	0	Send	Input 10	0x000a	0	Output 10	0x040a	0	Send	Input 11	0x000b	0	Output 11	0x040b	0	Send	Input 12	0x000c	0	Output 12	0x040c	0	Send	Input 13	0x000d	0	Output 13	0x040d	0	Send	Input 14	0x000e	0	Output 14	0x040e	0	Send	Input 15	0x000f	0	Output 15	0x040f	0	Send	Input 16	0x0010	0	Output 16	0x0410	0	Send
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Schritt	Beschreibung	Bild															
5	<p>Drücken Sie auf Change Configuration (Konfiguration ändern), um die IP-Adresse festzulegen.</p>	 <p>The screenshot shows the 'Configuration' page of the KUNBUS-GW EtherNet/IP™ device. At the top right, there is a 'Log Out' link and the KUI Industri logo. Below the header, there are sections for Modbus Register input/output and a 'Configuration' section. The 'Configuration' section lists several parameters: Serial Number (594), Software Version (1.1.0464), MAC Address (c9:3a:37:70:0b:10), IP Address (192.168.1.8), Subnet Mask (255.255.255.0), and Gateway (192.168.1.1). There are checkboxes for 'DHCP' and 'active' for both. A red arrow points to the 'Change Configuration' button, which is located below the 'DHCP' and 'active' checkboxes. Other buttons visible are 'Change Password' and 'Reboot'. A 'Download EDS file' link is at the bottom left.</p>															
6	<p>Ändern Sie die IP-Adresse entsprechend der Gateway-Adresse.</p> <p>Drücken Sie zum Bestätigen auf Apply (Anwenden).</p> <p>Stellen Sie alle DIP-Schalter auf AUS.</p> <p>Schalten Sie das Gateway aus, und starten Sie es erneut. Die neue IP-Adresse wird nun verwendet.</p>	 <p>The screenshot shows the 'Change Configuration' dialog box. It has a title bar 'KUNBUS-GW EtherNet/IP™' and a 'Change Configuration' title. Below the title, there is a table with 'Old Value' and 'New Value' columns. The 'DHCP' checkbox is checked. The 'IP Address' field is highlighted with a red circle. The 'Network Mask' and 'Gateway' fields are also visible. At the bottom, there are 'Apply' and 'Abort' buttons. The 'Apply' button is circled in red.</p> <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td><input checked="" type="checkbox"/> active</td> <td><input type="checkbox"/> active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table>		Old Value	New Value	DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0	Gateway	192.168.1.1	192.168.1.1
	Old Value	New Value															
DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active															
IP Address	192.168.1.8	192.168.1.8															
Network Mask	255.255.255.0	255.255.255.0															
Gateway	192.168.1.1	192.168.1.1															

Kapitel 8 Konfiguration des Profinet-Gateways

Schritt	Beschreibung	Bild
1	<ul style="list-style-type: none"> • Schließen Sie das Profinet-Gateway über den LAN-zu-LAN-Adapter an den PC an. • Siehe Einführung auf Seite 25. Nutzen Sie den Link bei GATEWAY Profinet-IRT Slave. Befolgen Sie die Anweisungen im Benutzerhandbuch des Herstellers <i>Gateway-Komponente für PROFINET</i>. • Verwenden Sie die Software PRONETA, um den Namen auf kunbus-gw-profinet einzustellen. • Geben Sie die verwendete IP-Adresse ein. 	
2	<p>Öffnen Sie den Browser und geben Sie die IP-Adresse ein. Anmeldedaten für die Erstanmeldung: Benutzer: Admin Passwort: 1701 Drücken Sie auf Login (Anmelden).</p>	

Schritt	Beschreibung	Bild																
3	Drücken Sie auf Show (Anzeigen) (A), um die Eingabedaten anzuzeigen.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table border="0"> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
Serial number	4581																	
Software Version	1.2																	
MAC Address	c8:3e:a7:01:2c:3a																	
IP address	192.168.0.230																	
Subnet mask	255.255.255.0																	
Gateway	0.0.0.0																	
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PROFINET Name of Station	kunbus-gw-profinet																	

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4	<p>Es werden alle vom Controller an das Profinet-Gateway gesendeten Daten angezeigt.</p> <p>Der Controller und das Profinet-Gateway übertragen den Datenbereich 0000 - 01BF, d.h. einen Bereich von 448 Byte oder 112 Float oder 224 Integer oder eine Kombination daraus, basierend auf dem Telegrammtyp des Modbus-TCP im Controller.</p>	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input (from neighbour device)</p> <p>Main page</p> <table border="1"> <thead> <tr> <th>Address</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Kapitel 9 Fehlerbehebung

9.1 Fehlerbehebung bei RevPi

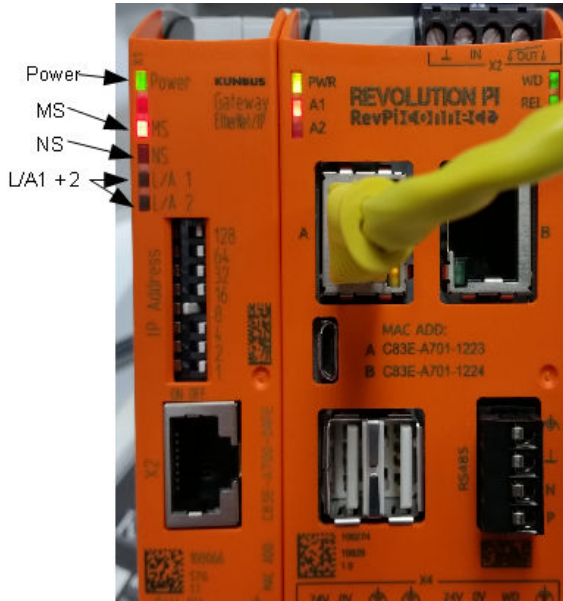
Abbildung 4 RevPi Grundmodul



Meldung	Beschreibung	Lösung
LED A2 blinkt rot.	Die Verbindung wurde unterbrochen.	<ul style="list-style-type: none">• Schließen Sie das Netzkabel (Kabel oder Router) an.• Stellen Sie die Modbus-Adresseinstellung in Claros auf 1 ein.• Schalten Sie Modbus-TCP im Claros Menü ein.
LED A3 blinkt langsam rot.	Die Konfiguration von Ethernet/IP- und Profinet-Gateway ist nicht korrekt.	Siehe Start der USB-Konfiguration auf Seite 27, Schritt 4, und wählen Sie den richtigen Gateway-Typ aus: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Fehlerbehebung bei Ethernet/IP

Abbildung 5 Ethernet/IP-Gateway

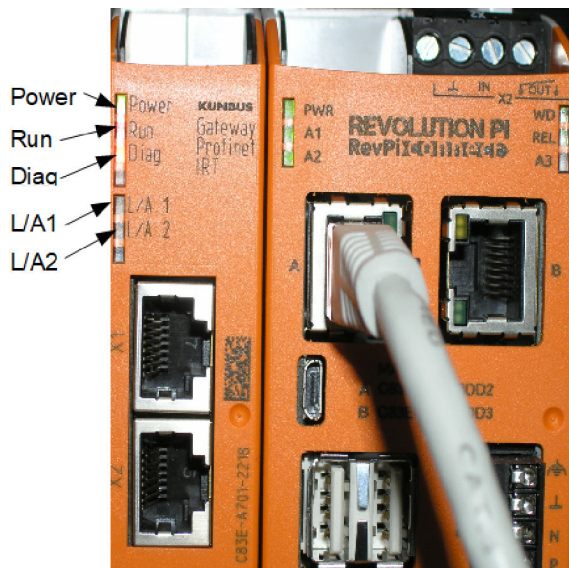


Meldung	Beschreibung	Lösung
Die Power-LED leuchtet nicht.	Das Ethernet/IP-Gateway ist ausgeschaltet.	Schalten Sie das Gerät ein.
Die Power-LED blinkt grün.	Der Startvorgang ist nicht abgeschlossen.	Warten Sie einige Minuten.
Die Power-LED blinkt rot.	Dies zeigt eine Warnung an.	Überprüfen Sie, ob alle Geräte angeschlossen sind.
Die Power-LED leuchtet rot.	Dies zeigt einen Fehler an.	Das Ethernet/IP-Gateway ist defekt. Tauschen Sie das Ethernet/IP-Gateway aus.
Die MS-LED leuchtet nicht.	Das Ethernet/IP-Gateway ist ausgeschaltet.	Schalten Sie das Gerät ein.
Die MS-LED blinkt grün.	Die Konfiguration ist nicht abgeschlossen.	Warten Sie einige Minuten.
Die MS-LED blinkt rot.	Dies zeigt einen Konfigurationsfehler an.	Informationen zur Konfiguration finden Sie unter Konfiguration des Ethernet/IP-Gateways auf Seite 38.
Die MS-LED leuchtet rot.	Dies zeigt einen Fehler an.	Das Ethernet/IP-Gateway ist defekt. Tauschen Sie das Ethernet/IP-Gateway aus.
Die MS-LED blinkt rot und grün.	Der Selbsttest ist nicht abgeschlossen.	Warten Sie einige Minuten.

Meldung	Beschreibung	Lösung
Die NS-LED leuchtet nicht.	Das Ethernet/IP-Gateway ist ausgeschaltet oder hat keine IP-Adresse.	Schalten Sie das Gerät ein. Stellen Sie die IP-Adresse ein.
Die NS-LED blinkt grün.	Die IP-Adresse ist festgelegt, aber die CIP-Verbindung wurde nicht hergestellt.	Warten Sie einige Minuten.
Die NS-LED blinkt rot.	Die CIP-Verbindung wurde getrennt.	Prüfen Sie, ob eine Zeitüberschreitung vorliegt.
Die NS-LED leuchtet rot.	Die ausgewählte IP-Adresse wird von einem anderen Gerät verwendet.	Ändern Sie die IP-Adresse auf eine eindeutige IP-Adresse.
Die LED L/A 1 oder 2 leuchtet nicht.	Es besteht keine Verbindung zu anderen Geräten.	Schließen Sie ein Gerät an.
Die LED L/A 1 oder 2 blinkt grün.	Kein Datenaustausch.	Warten Sie bis zum nächsten Datenaustausch.

9.3 Fehlerbehebung bei Profinet

Abbildung 6 Profinet-Gateway



Meldung	Beschreibung	Lösung
Die Power-LED leuchtet nicht.	Das Profinet-Gateway ist ausgeschaltet.	Schalten Sie das Gerät ein.
Die Power-LED blinkt grün.	Der Startvorgang ist nicht abgeschlossen.	Warten Sie einige Minuten.
Die Power-LED blinkt rot.	Dies zeigt eine Warnung an.	Überprüfen Sie, ob alle Geräte installiert sind.

Meldung	Beschreibung	Lösung
Die Power-LED leuchtet rot.	Dies zeigt einen Fehler an.	Das Profinet-Gateway ist defekt. Tauschen Sie das Profinet-Gateway aus.
Die Run-LED leuchtet nicht.	Keine Verbindung zu einem Netzwerk.	Stellen Sie eine Verbindung zu einem Netzwerk her.
Die Run-LED blinkt grün.	Profinet-Controller ist verbunden, es erfolgt aber kein Datenaustausch.	Warten Sie bis zum nächsten Datenaustausch.
Die Run-LED blinkt langsam grün.	Ausgelöst vom Tool zur Identifizierung der Gateway-Komponente.	Warten Sie einige Minuten.
Die Diag-LED blinkt rot.	Ausgelöst vom Tool zur Identifizierung der Gateway-Komponente.	Warten Sie einige Minuten.
Die Diag-LED blinkt schnell rot.	Keine Verbindung mit dem Controller. Kein Profinet-Name im Modul festgelegt.	Informationen zum Festlegen des Namens finden Sie unter Konfiguration des Profinet-Gateways auf Seite 41.
Die Diag-LED leuchtet rot.	Ein Gateway-Gerät meldet Diagnosedaten.	Lesen Sie den Diagnosebericht.
Die LED L/A 1 oder 2 leuchtet nicht.	Keine Verbindung zu einem Netzwerk.	Stellen Sie eine Verbindung zu einem Netzwerk her.
Die LED L/A 1 oder 2 blinkt grün.	Datenaustausch.	Warten Sie, bis der Datenaustausch abgeschlossen ist.

Table des matières

- | | |
|---|---|
| 1 Usage prévu à la page 48 | 7 Configurez la passerelle Ethernet/IP à la page 60 |
| 2 Introduction à la page 48 | 8 Configurez la passerelle Profinet à la page 63 |
| 3 Démarrez la configuration USB à la page 50 | 9 Dépannage à la page 66 |
| 4 Exemples d'installation à la page 52 | |
| 5 Configuration du télégramme Modbus TCP du contrôleur SC4200c à la page 54 | |
| 6 Configuration du télégramme Modbus TCP du contrôleur SC1500 à la page 57 | |

Section 1 Usage prévu

Ces instructions de configuration sont destinées à être utilisées par des personnes qui intègrent une passerelle Ethernet/IP externe ou une passerelle Profinet comme composants matériels du réseau Claros.

Section 2 Introduction

Le fabricant décline toute responsabilité quant aux dégâts liés à une application ou un usage inappropriés de ce produit, y compris, sans s'y limiter, des dommages directs ou indirects ainsi que des dommages consécutifs, et rejette toute responsabilité quant à ces dommages dans la mesure où la loi applicable le permet. L'utilisateur est seul responsable de la vérification des risques d'application critiques et de la mise en place de mécanismes de protection des processus en cas de défaillance de l'équipement.

▲ DANGER



Risque d'électrocution. Débranchez systématiquement l'alimentation de l'appareil avant tout branchement électrique.

Éléments à réunir :

- Clé USB formatée FAT32
- PC avec Windows¹ 10
- Module :
 - Pour le déploiement Ethernet/IP :
 - LXZ446.99.00001 : module de base RevPi PASSERELLE IloT
 - LXZ446.99.00002 : PASSERELLE esclave Ethernet/IP
 - LXZ446.99.00003 : cavalier pour PiBridge
 - Pour le déploiement Profinet :
 - LXZ446.99.00001 : module de base RevPi PASSERELLE IloT
 - LXZ446.99.00007 : PASSERELLE esclave IRT Profinet
 - LXZ446.99.00003 : cavalier pour PiBridge

Connectez les trois modules RevPi, Slave et PiBridge à l'alimentation et au réseau local.

Reportez-vous aux liens du tableau ci-dessous pour plus d'informations concernant le fabricant des modules.

¹ Microsoft® Windows® est une marque déposée de Microsoft Corporation aux Etats-Unis et dans d'autres pays.

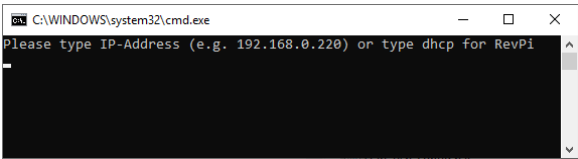
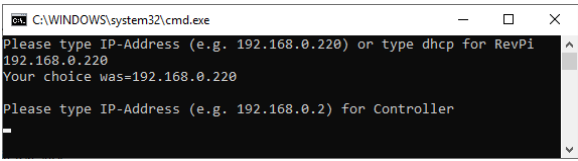
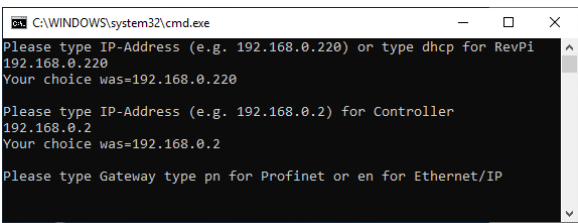
Module	Liaison
PASSERELLE Esclave IRT Profinet	https://www.kunbus.com/profinet-irt-gateway-module.html
PASSERELLE esclave Ethernet/IP	https://www.kunbus.com/ethernet-ip-gateway-module.html
Module de base RevPi PASSERELLE IIoT	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
Comment connecter les modules RevPi	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Comment installer des modules RevPi sur un rail DIN	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Comment brancher l'alimentation	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

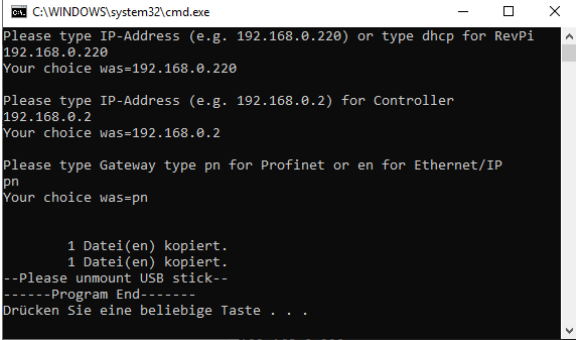


Préparez la clé USB

1. Insérez une clé USB vide dans le PC.
2. Rendez-vous sur <https://www.hach.com> et recherchez les mots-clés « installation usb ethernet/IP » ou « installation usb profinet ».
3. Téléchargez USB_ETHIP_PRNET.zip.
4. Décompressez le fichier dans le répertoire racine de la clé USB.

Section 3 Démarrez la configuration USB

Insérez la clé USB préparée dans le PC.

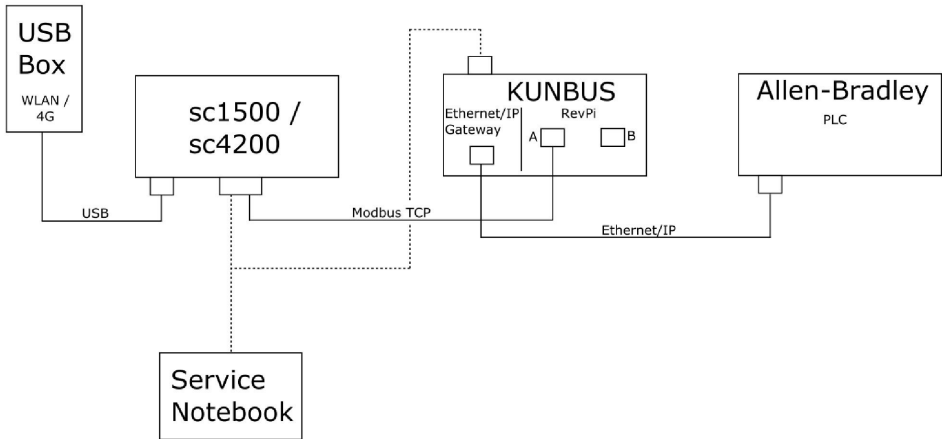
Etape	Description	Image
1	Exécutez start_usb_config.bat. Une fenêtre de borne s'ouvre. Suivez le guide étape par étape.	
2	Saisissez l'adresse IP du module RevPi.	
3	Saisissez l'adresse IP du contrôleur SC. Assurez-vous que le préfixe réseau est identique à celui du module RevPi (par exemple, 192.168.0). Assurez-vous que l'identificateur d'hôte est différent du module RevPi (par exemple, 220 RevPi, 2 contrôleurs).	
4	Saisissez le type de passerelle : <ul style="list-style-type: none">• pn—Profinet• en—Ethernet/IP	

Etape	Description	Image
5	<p>Confirmez les réglages en appuyant sur Enter (Entrée). Retirez la clé USB.</p>	
6	<p>Insérez la clé USB dans le port USB gauche du module RevPi.</p>	
7	<p>Description des VOYANTS :</p> <ul style="list-style-type: none"> • A1/A2 orange : l'installation de RevPi démarre. • A1 rouge, A2 éteint : insertion clé USB dans RevPi. • A1 vert, A2 éteint : la clé USB a bien été insérée. • A1 désactivé, A2 vert : RevPi télécharge en amont/en aval les données depuis la clé USB. • A3 rouge : le RevPi redémarre. <p>Lorsque A3 est rouge, retirez la clé USB.</p>	
8	<p>Les paramètres RevPi sont appliqués.</p>	

Section 4 Exemples d'installation

Figure 1 présente une installation avec deux connexions LAN différentes.

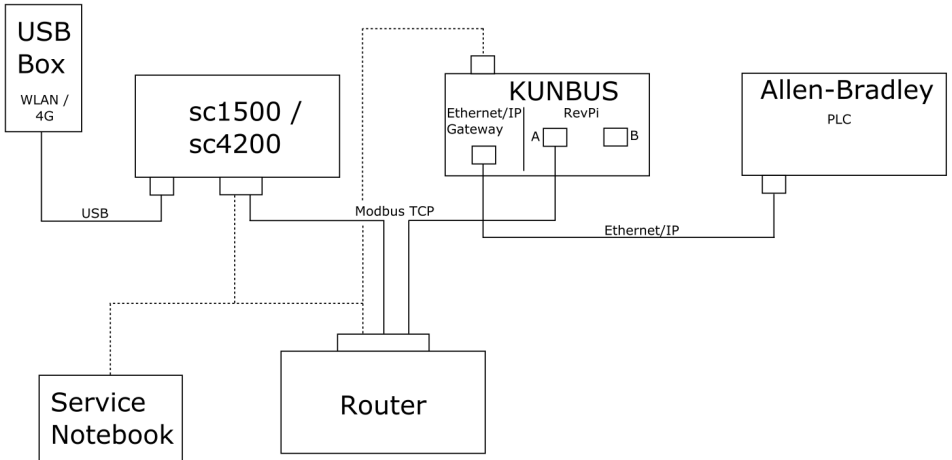
Figure 1 Exemple 1



- TCP Modbus et Ethernet/IP utilisent deux connexions LAN différentes.
- Tous les périphériques ont une adresse IP statique.
- Le contrôleur dispose d'un accès à Internet avec connexion Wi-Fi ou cellulaire.
- Pour configurer l'adresse IP du contrôleur et de la passerelle Ethernet/IP, un ordinateur portable est nécessaire.

Figure 2 présente une installation avec un routeur pour la connexion TCP Modbus.

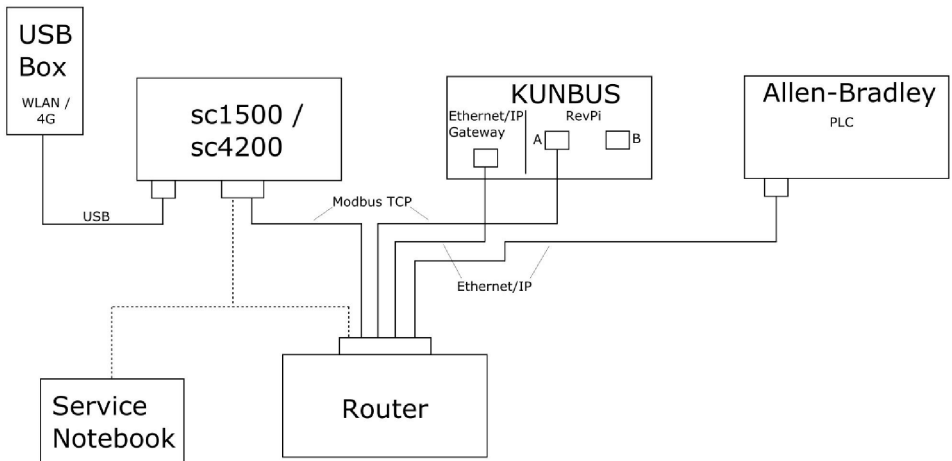
Figure 2 Exemple 2



- Le TCP Modbus est connecté à un routeur.
- Tous les périphériques ont une adresse IP statique ou le routeur définit l'adresse IP via DHCP.
Remarque : Assurez-vous que le routeur utilise toujours la même adresse IP pour les mêmes périphériques (MAC) si DHCP est utilisé.
- Le contrôleur dispose d'un accès à Internet avec connexion Wi-Fi ou cellulaire.
- Pour configurer l'adresse IP du contrôleur et de la passerelle Ethernet/IP, ainsi que les paramètres du routeur, un ordinateur portable est nécessaire.

Figure 3 présente une installation avec un routeur ou un commutateur pour tous les périphériques.

Figure 3 Exemple 3

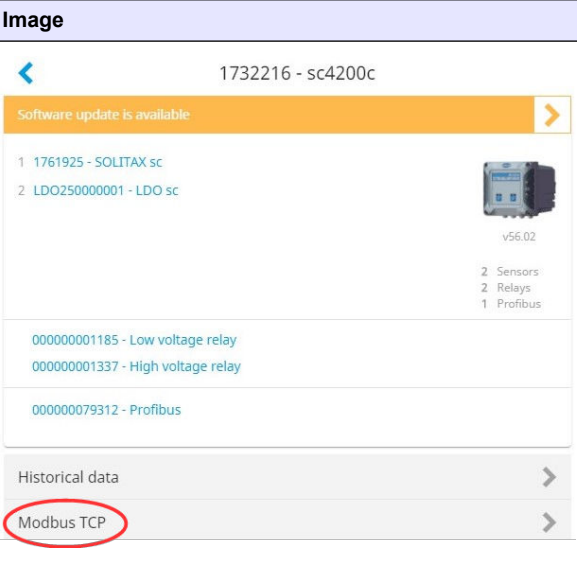
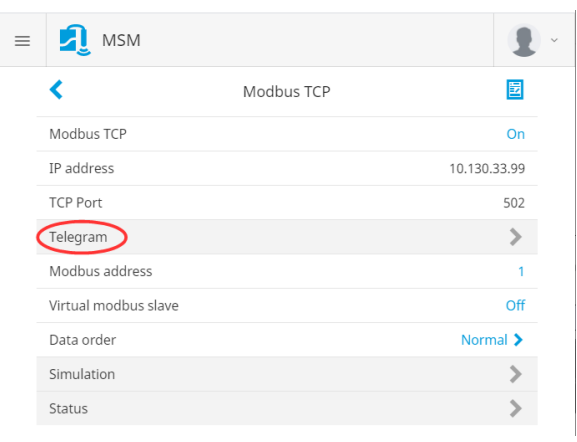


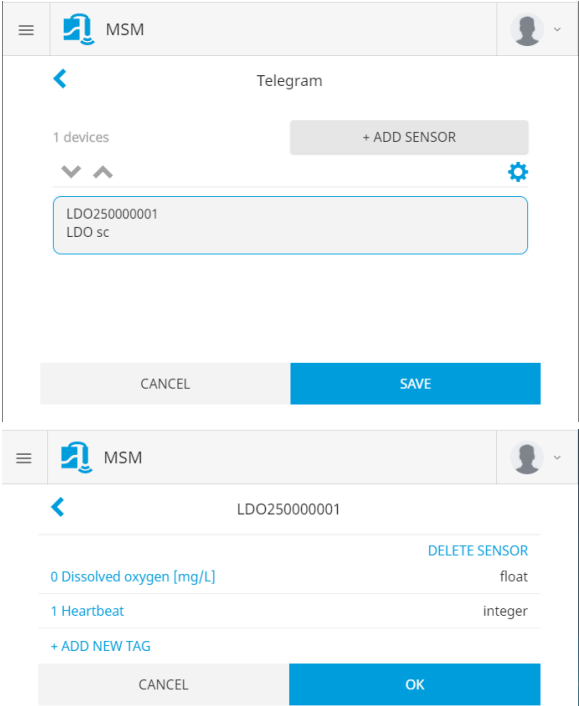
- Tous les périphériques sont connectés à un routeur ou à un commutateur.

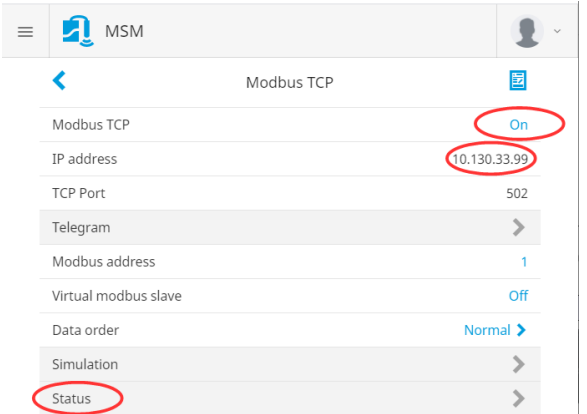

- Tous les périphériques ont une adresse IP statique ou le routeur ou commutateur définit l'adresse IP via DHCP.
Remarque : Assurez-vous que le routeur utilise toujours la même adresse IP pour les mêmes périphériques (MAC) si DHCP est utilisé.
- Le contrôleur dispose d'un accès à Internet avec connexion Wi-Fi ou cellulaire.
- Pour configurer l'adresse IP du contrôleur et les paramètres du routeur, un ordinateur portable est nécessaire.

Section 5 Configuration du télégramme Modbus TCP du contrôleur SC4200c

Démarrez l'application Claros et suivez le guide étape par étape.

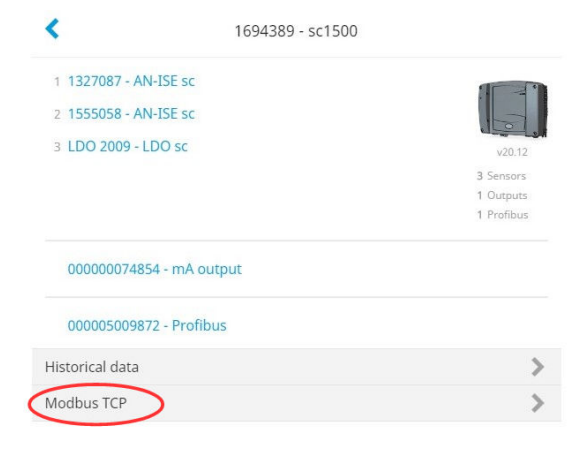
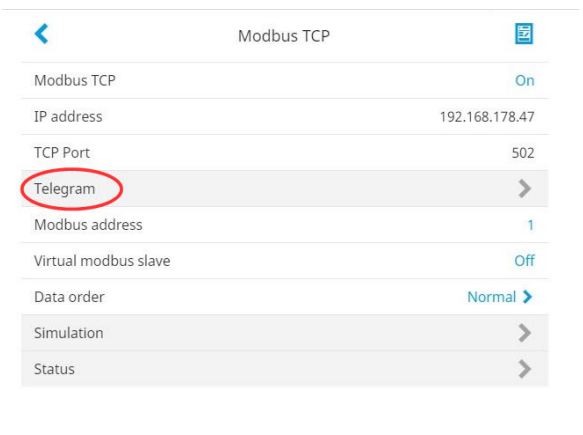
Etape	Description	Image
1	Sélectionnez le menu du contrôleur, puis appuyez sur Modbus TCP .	 <p>The screenshot shows the main menu of the Claros application for device 1732216 - sc4200c. At the top, there is a navigation bar with a back arrow and the device ID. Below it, a yellow banner indicates 'Software update is available'. The main content area lists several device components: '1 1761925 - SOLITAX sc', '2 LDO250000001 - LDO sc', '00000001185 - Low voltage relay', '00000001337 - High voltage relay', and '000000079312 - Profibus'. On the right side, there is a small image of the device and a list of components: '2 Sensors', '2 Relays', and '1 Profibus'. At the bottom, there are two menu items: 'Historical data' and 'Modbus TCP', both with right-pointing arrows. The 'Modbus TCP' item is circled in red.</p>
2	Sélectionnez Telegram (Télégramme) pour définir le télégramme TCP Modbus.	 <p>The screenshot shows the 'Modbus TCP' configuration screen in the Claros application. At the top, there is a navigation bar with a back arrow, the title 'Modbus TCP', and a settings icon. Below it, there is a list of configuration options: 'Modbus TCP' (On), 'IP address' (10.130.33.99), 'TCP Port' (502), 'Telegram' (circled in red), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal), 'Simulation', and 'Status'. Each option has a right-pointing arrow next to it.</p>

Etape	Description	Image
3	<p>Le télégramme illustré est un exemple pour le capteur sc LDO.</p> <p>Définissez le battement de cœur sur entier. Le battement de cœur est un compteur qui affiche la mise à jour de la valeur par incréments d'une seconde.</p> <p><i>Remarque : Le contenu du télégramme TCP Modbus est identique au télégramme Profibus.</i></p>	 <p>The image contains two screenshots from the MSM (Modbus Slave Manager) interface. The top screenshot shows the 'Telegram' configuration screen. At the top, there is a header with the MSM logo and a user profile icon. Below the header, there is a back arrow and the title 'Telegram'. Underneath, it says '1 devices' and has a '+ ADD SENSOR' button. A list of devices is shown with 'LDO250000001' and 'LDO sc'. There are up and down arrows and a settings gear icon. At the bottom, there are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the configuration for the 'LDO250000001' sensor. It has a back arrow and the title 'LDO250000001'. There is a 'DELETE SENSOR' link. The configuration shows '0 Dissolved oxygen [mg/L]' with a 'float' data type, and '1 Heartbeat' with an 'integer' data type. There is a '+ ADD NEW TAG' button. At the bottom, there are 'CANCEL' and 'OK' buttons.</p>

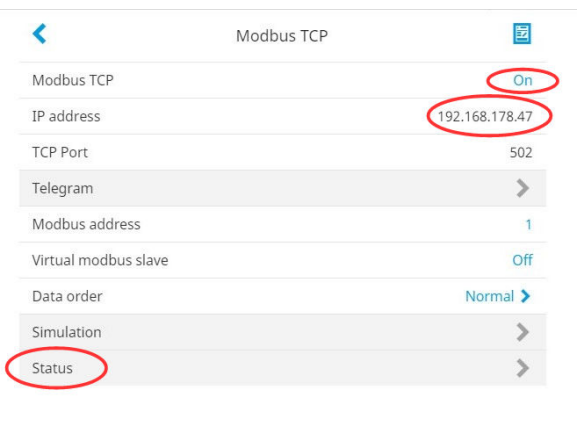
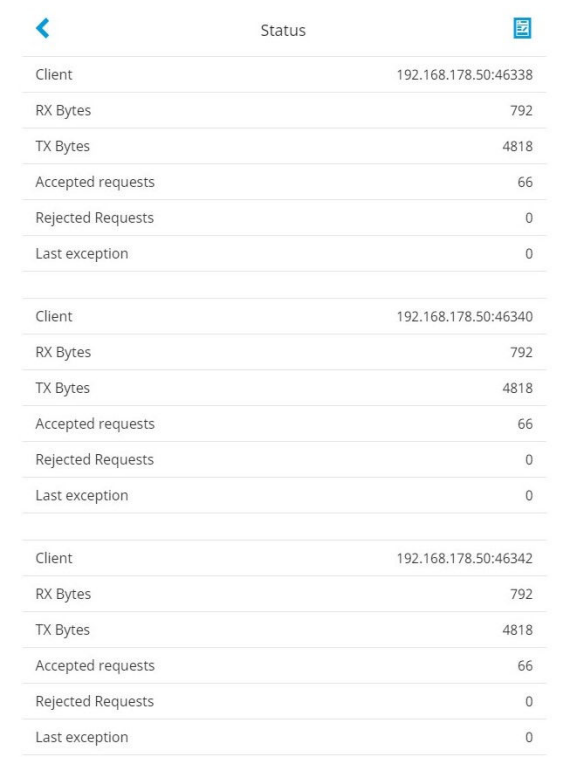
Etape	Description	Image																												
4	<p>Le menu TCP Modbus affiche l'adresse IP du contrôleur. 10.130.33.99 est l'adresse IP définie dans le menu de maintenance du contrôleur.</p> <p>Définissez le TCP Modbus sur On (Activé), puis appuyez sur Status (Etat).</p>	 <p>The screenshot shows the 'Modbus TCP' configuration page in the MSM application. The 'On' toggle is circled in red. The IP address '10.130.33.99' is also circled in red. The 'Status' menu item at the bottom is circled in red. Other visible settings include TCP Port (502), Modbus address (1), and Virtual modbus slave (Off).</p>																												
5	<p>Le menu Status (Etat) affiche les statistiques TCP Modbus. 10.130.33.50 est l'adresse IP du module RevPi. Le RevPi dispose de 5 TCP Modbus maîtres.</p>	 <p>The screenshot shows the 'Status' page in the MSM application, displaying statistics for three different clients. Each client's statistics are listed in a table format.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>IP Address</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>Client</td> <td>10.130.33.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>Client</td> <td>10.130.33.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>Client</td> <td>10.130.33.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	IP Address	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	Client	10.130.33.50:46338	792	4818	66	0	0	Client	10.130.33.50:46340	792	4818	66	0	0	Client	10.130.33.50:46342	792	4818	66	0	0
Client	IP Address	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception																								
Client	10.130.33.50:46338	792	4818	66	0	0																								
Client	10.130.33.50:46340	792	4818	66	0	0																								
Client	10.130.33.50:46342	792	4818	66	0	0																								

Section 6 Configuration du télégramme Modbus TCP du contrôleur SC1500

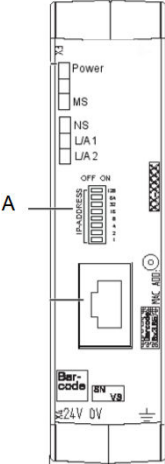
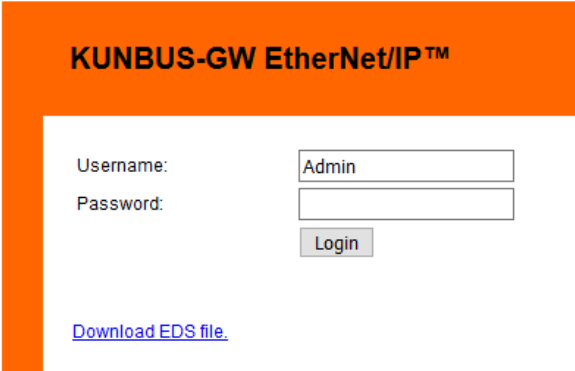
Démarrez l'application Claros et suivez le guide étape par étape.

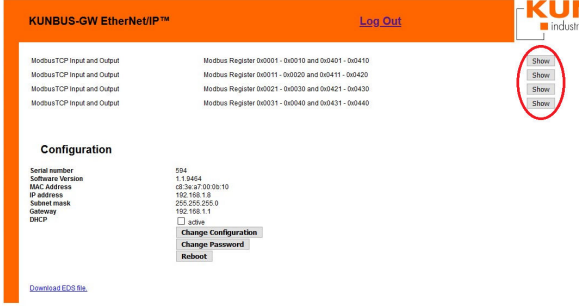
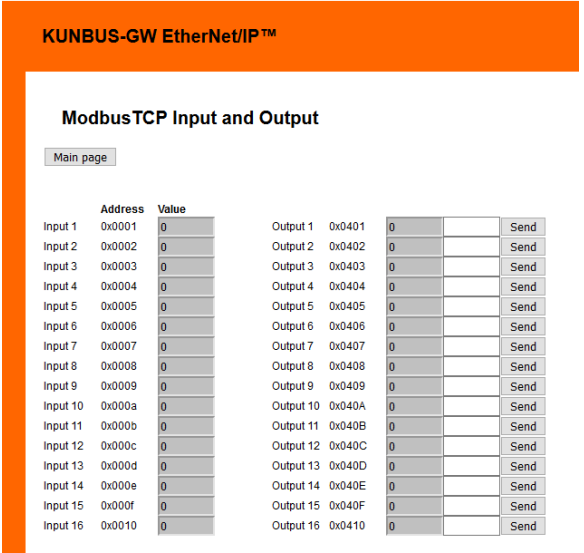
Étape	Description	Image
1	Sélectionnez le menu du contrôleur, puis appuyez sur Modbus TCP .	
2	Sélectionnez Telegram (Télégramme) pour définir le télégramme TCP Modbus.	

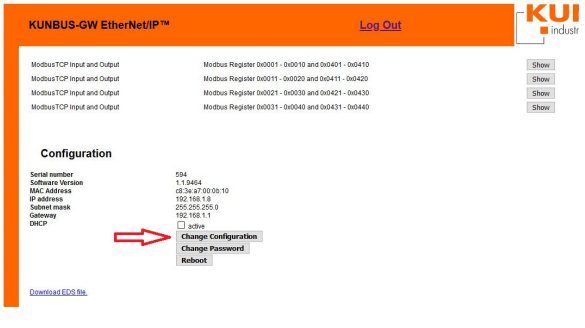
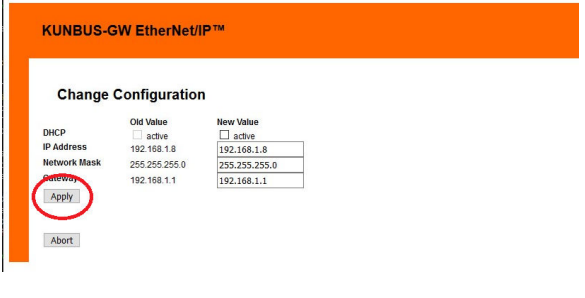
Etape	Description	Image
3	<p>Le télégramme illustré est un exemple pour le capteur sc LDO.</p> <p>Définissez le battement de cœur sur entier. Le battement de cœur est un compteur qui affiche la mise à jour de la valeur par incréments d'une seconde.</p> <p><i>Remarque : Le contenu du télégramme TCP Modbus est identique au télégramme Profibus.</i></p>	<p>The image contains two screenshots of a configuration interface. The top screenshot is titled 'Telegram' and shows a list of devices with 'LDO 2009' and 'LDO sc' selected. It includes a '+ ADD SENSOR' button, a gear icon, and 'CANCEL' and 'SAVE' buttons at the bottom. The bottom screenshot is titled 'LDO 2009' and shows configuration for two tags: '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer). It includes a 'DELETE SENSOR' link, a '+ ADD NEW TAG' button, and 'CANCEL' and 'OK' buttons at the bottom.</p>

Etape	Description	Image
4	<p>Le menu TCP Modbus affiche l'adresse IP du contrôleur. 192.168.178.47 est l'adresse IP définie dans le menu de maintenance du contrôleur.</p> <p>Définissez le TCP Modbus sur On (Activé), puis appuyez sur Status (Etat).</p>	 <p>Modbus TCP</p> <p>Modbus TCP On</p> <p>IP address 192.168.178.47</p> <p>TCP Port 502</p> <p>Telegram ></p> <p>Modbus address 1</p> <p>Virtual modbus slave Off</p> <p>Data order Normal ></p> <p>Simulation ></p> <p>Status ></p>
5	<p>Le menu Status (Etat) affiche les statistiques TCP Modbus. 192.168.178.50 est l'adresse IP du module RevPi. Le RevPi dispose de 7 TCP Modbus maîtres.</p>	 <p>Status</p> <p>Client 192.168.178.50:46338</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p> <hr/> <p>Client 192.168.178.50:46340</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p> <hr/> <p>Client 192.168.178.50:46342</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p>

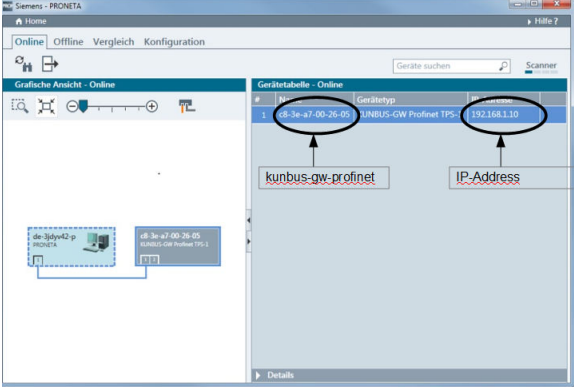
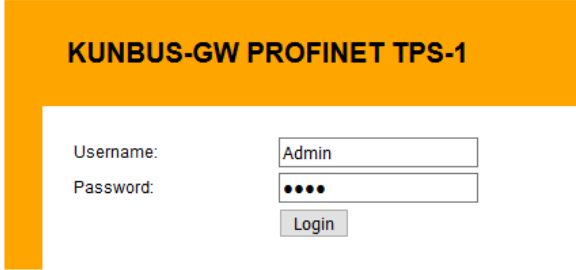
Section 7 Configurez la passerelle Ethernet/IP

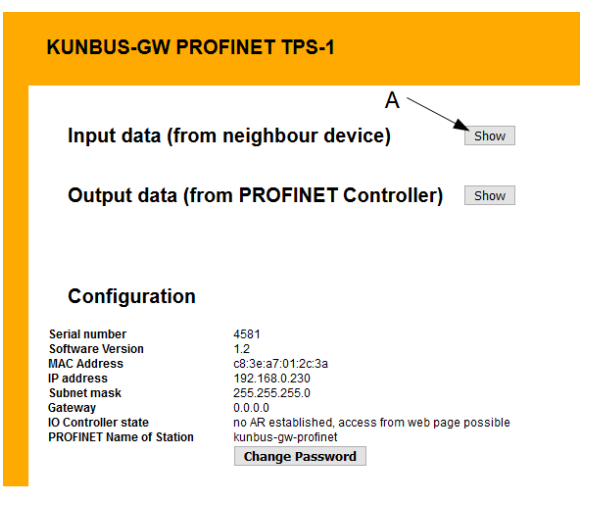
Etape	Description	Image
1	<ul style="list-style-type: none">Connectez la passerelle Ethernet/IP au PC au moyen du câble adaptateur LAN>USB.Reportez-vous à la section Introduction à la page 48. Utilisez le lien de l'esclave PASSERELLE Ethernet/IP. Suivez les instructions du manuel d'utilisateur du fabricant, <i>Composant passerelle pour Ethernet/IP</i>.Utilisez le commutateur d'adresse à 8 broches (A) pour définir l'identificateur d'hôte au format binaire de la passerelle.<ul style="list-style-type: none">Exemple : définissez l'hôte sur 8: 00010000Ouvrez le site Web http://192.168.1.X (X = somme de tous les commutateurs réglés sur ON).	
2	<p>Ouvrez le navigateur et saisissez l'adresse IP 192.168.1.X. Données pour la première connexion :</p> <p>Utilisateur : Admin Mot de passe : 1701</p> <p>Appuyez sur Login (Connexion).</p>	

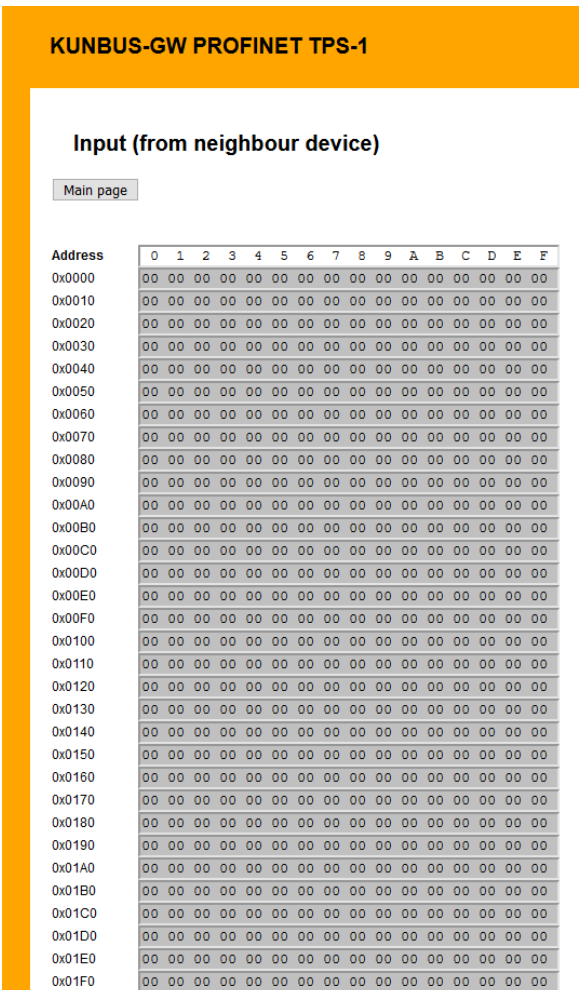
Etape	Description	Image																																																																																																																						
3	<p>Le contrôleur et la passerelle Ethernet/IP transfèrent la zone de données 0000 - 01BF, qui est une plage de 448 octets ou 112 floteurs ou 224 entiers ou une combinaison de ces éléments, en fonction du type de télégramme du TCP Modbus dans le contrôleur.</p> <p><i>Remarque : Seule la première plage de données à 32 entiers s'affiche. Affichez toutes les données de l'API (224 entiers).</i></p> <p>Appuyez sur Show (Afficher).</p>																																																																																																																							
4	<p>La zone de données sélectionnée s'affiche.</p>	 <table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Input 1</td> <td>0x0001</td> <td>0</td> <td>Output 1</td> <td>0x0401</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 2</td> <td>0x0002</td> <td>0</td> <td>Output 2</td> <td>0x0402</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 3</td> <td>0x0003</td> <td>0</td> <td>Output 3</td> <td>0x0403</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 4</td> <td>0x0004</td> <td>0</td> <td>Output 4</td> <td>0x0404</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 5</td> <td>0x0005</td> <td>0</td> <td>Output 5</td> <td>0x0405</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 6</td> <td>0x0006</td> <td>0</td> <td>Output 6</td> <td>0x0406</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 7</td> <td>0x0007</td> <td>0</td> <td>Output 7</td> <td>0x0407</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 8</td> <td>0x0008</td> <td>0</td> <td>Output 8</td> <td>0x0408</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 9</td> <td>0x0009</td> <td>0</td> <td>Output 9</td> <td>0x0409</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 10</td> <td>0x000a</td> <td>0</td> <td>Output 10</td> <td>0x040A</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 11</td> <td>0x000b</td> <td>0</td> <td>Output 11</td> <td>0x040B</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 12</td> <td>0x000c</td> <td>0</td> <td>Output 12</td> <td>0x040C</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 13</td> <td>0x000d</td> <td>0</td> <td>Output 13</td> <td>0x040D</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 14</td> <td>0x000e</td> <td>0</td> <td>Output 14</td> <td>0x040E</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 15</td> <td>0x000f</td> <td>0</td> <td>Output 15</td> <td>0x040F</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 16</td> <td>0x0010</td> <td>0</td> <td>Output 16</td> <td>0x0410</td> <td>0</td> <td>Send</td> </tr> </tbody> </table>	Address	Value					Input 1	0x0001	0	Output 1	0x0401	0	Send	Input 2	0x0002	0	Output 2	0x0402	0	Send	Input 3	0x0003	0	Output 3	0x0403	0	Send	Input 4	0x0004	0	Output 4	0x0404	0	Send	Input 5	0x0005	0	Output 5	0x0405	0	Send	Input 6	0x0006	0	Output 6	0x0406	0	Send	Input 7	0x0007	0	Output 7	0x0407	0	Send	Input 8	0x0008	0	Output 8	0x0408	0	Send	Input 9	0x0009	0	Output 9	0x0409	0	Send	Input 10	0x000a	0	Output 10	0x040A	0	Send	Input 11	0x000b	0	Output 11	0x040B	0	Send	Input 12	0x000c	0	Output 12	0x040C	0	Send	Input 13	0x000d	0	Output 13	0x040D	0	Send	Input 14	0x000e	0	Output 14	0x040E	0	Send	Input 15	0x000f	0	Output 15	0x040F	0	Send	Input 16	0x0010	0	Output 16	0x0410	0	Send
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Etape	Description	Image
5	<p>Appuyez sur Change Configuration (Modifier la configuration) pour définir l'adresse IP.</p>	 <p>The screenshot shows the 'KUNBUS-GW EtherNet/IP™' web interface. At the top right, there is a 'Log Out' link and the KUI logo. Below this, there are three rows of Modbus registers with 'Show' buttons. The main section is titled 'Configuration' and lists several parameters: Serial Number (594), Software Version (1.1.0464), MAC Address (c9:3a:37:00:0a:10), IP Address (192.168.1.8), Subnet mask (255.255.255.0), and Gateway (192.168.1.1). Below these parameters are three buttons: 'Change Configuration' (highlighted with a red arrow), 'Change Password', and 'Reboot'. At the bottom left, there is a 'Download EDS file' link.</p>
6	<p>Modifiez l'adresse IP en fonction de l'adresse de la passerelle.</p> <p>Appuyez sur Apply (Appliquer) pour confirmer.</p> <p>Mettez tous les commutateurs DIP sur Off (Désactivé).</p> <p>Mettez la passerelle hors tension, puis redémarrez-la. La nouvelle adresse IP est maintenant utilisée.</p>	 <p>The screenshot shows the 'Change Configuration' dialog box. It has a title bar 'KUNBUS-GW EtherNet/IP™' and a subtitle 'Change Configuration'. Below the subtitle is a table with columns 'Old Value' and 'New Value'. The table contains four rows: DHCP (active), IP Address (192.168.1.8), Network Mask (255.255.255.0), and Gateway (192.168.1.1). Below the table are two buttons: 'Apply' (circled in red) and 'Abort'.</p>

Section 8 Configurez la passerelle Profinet

Etape	Description	Image
1	<ul style="list-style-type: none"> Connectez la passerelle Profinet au PC à l'aide de l'adaptateur LAN>LAN. Reportez-vous à la section Introduction à la page 48. Utilisez le lien de l'esclave PASSERELLE Profinet IRT. Suivez les instructions du manuel d'utilisateur du fabricant, <i>Composant passerelle pour PROFINET</i>. Utilisez le logiciel PRONETA pour définir le nom sur kunbus-GW-profinet. Saisissez l'adresse IP utilisée. 	
2	<p>Ouvrez le navigateur et saisissez l'adresse IP. Données pour la première connexion :</p> <p>Utilisateur : Admin Mot de passe : 1701 Appuyez sur Login (Connexion).</p>	

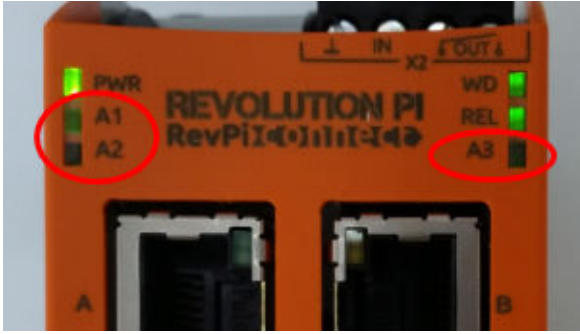
Etape	Description	Image																
3	Appuyez sur Show (Afficher) (A) pour afficher les données de saisie.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
Serial number	4581																	
Software Version	1.2																	
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Gateway	0.0.0.0																	
IO Controller state	no AR established, access from web page possible																	
PROFINET Name of Station	kunbus-gw-profinet																	

Etape	Description	Image																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
4	<p>Affiche toutes les données envoyées du contrôleur à la passerelle Profinet.</p> <p>Le contrôleur et la passerelle Profinet transfèrent la zone de données 0000 - 01BF, qui est une plage de 448 octets ou 224 entiers ou une combinaison de ces éléments, en fonction du type de télégramme du TCP Modbus dans le contrôleur.</p>	 <p>The screenshot shows the 'Input (from neighbour device)' section of the KUNBUS-GW PROFINET TPS-1 interface. It features a 'Main page' button and a table of hex data. The table has columns for addresses from 0 to F and rows for data from 0x0000 to 0x01F0. All data cells contain '00'.</p> <table border="1"> <thead> <tr> <th>Address</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0010</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0020</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0030</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0040</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0050</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0060</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0070</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0080</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0090</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x00A0</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Section 9 Dépannage

9.1 Dépannage du RevPi

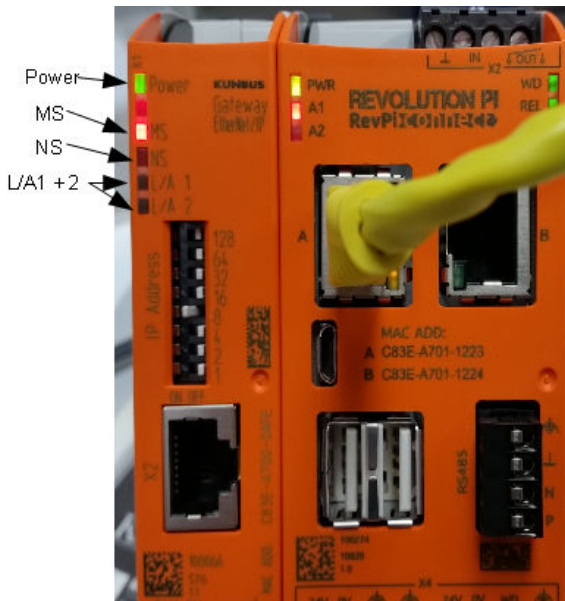
Figure 4 Module de base RevPi



Message	Description	Solution
Le voyant A2 clignote en rouge.	La communication s'est arrêtée.	<ul style="list-style-type: none">• Connectez le câble réseau (câble ou routeur).• Définissez le paramètre d'adresse Modbus dans Claros sur 1.• Définissez le TCP Modbus dans le menu Claros sur on (activé).
Le voyant A3 clignote lentement en rouge.	La configuration des passerelles Ethernet/IP et Profinet est mélangée.	Reportez-vous à la section Démarrez la configuration USB à la page 50, étape 4 et sélectionnez le type de passerelle approprié : <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Dépannage Ethernet/IP

Figure 5 Passerelle Ethernet/IP

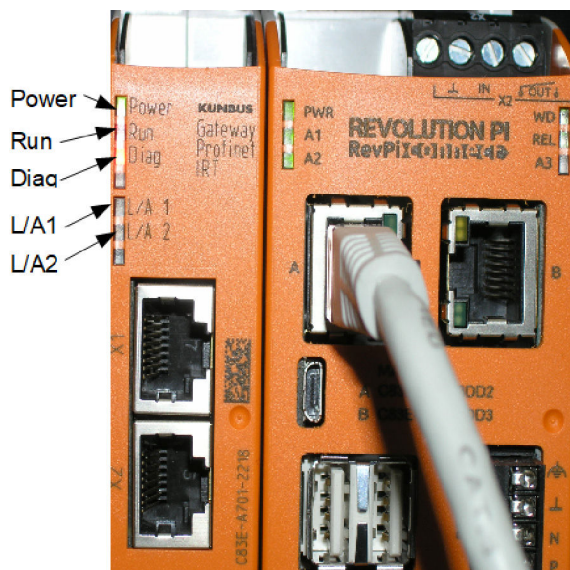


Message	Description	Solution
Le voyant d'alimentation est éteint.	La passerelle Ethernet/IP est désactivée.	Mettez l'appareil sous tension.
Le voyant d'alimentation clignote en vert.	La procédure de démarrage n'est pas terminée.	Attendez quelques minutes.
Le voyant d'alimentation clignote en rouge.	Affiche un avertissement.	Vérifiez si tous les périphériques sont connectés.
Le voyant d'alimentation est rouge.	Affiche une erreur.	La passerelle Ethernet/IP est défectueuse. Remplacez la passerelle Ethernet/IP.
Le voyant MS est éteint.	La passerelle Ethernet/IP est désactivée.	Mettez sous tension.
Le voyant MS clignote en vert.	La procédure de configuration n'est pas terminée.	Attendez quelques minutes.
Le voyant MS clignote en rouge.	Affiche une erreur de configuration.	Reportez-vous à Configurez la passerelle Ethernet/IP à la page 60 pour vérifier la configuration.
Le voyant MS est rouge.	Affiche une erreur.	La passerelle Ethernet/IP est défectueuse. Remplacez la passerelle Ethernet/IP.
Le voyant MS clignote en rouge et en vert.	L'auto-test n'est pas terminé.	Attendez quelques minutes.

Message	Description	Solution
Le voyant NS est éteint.	La passerelle Ethernet/IP est désactivée ou n'a pas d'adresse IP.	Mettez sous tension. Définissez l'adresse IP.
Le voyant NS clignote en vert.	L'adresse IP est définie, mais la connexion CIP n'est pas établie.	Attendez quelques minutes.
Le voyant NS clignote en rouge.	La connexion CIP s'est arrêtée.	Vérifiez s'il y a une temporisation.
Le voyant NS est rouge.	L'adresse IP sélectionnée est utilisée par un autre périphérique.	Remplacez l'adresse IP par une adresse IP unique.
Le voyant L/A 1 ou 2 est éteint.	Aucune connexion à d'autres périphériques.	Connectez-vous à un périphérique.
Le voyant L/A 1 ou 2 clignote en vert.	Aucun échange de données.	Attendez le prochain échange de données.

9.3 Dépannage de Profinet

Figure 6 Passerelle Profinet



Message	Description	Solution
Le voyant d'alimentation est éteint.	La passerelle Profinet est désactivée.	Mettez sous tension.
Le voyant d'alimentation clignote en vert.	La procédure de démarrage n'est pas terminée.	Attendez quelques minutes.
Le voyant d'alimentation clignote en rouge.	Affiche un avertissement.	Vérifiez si tous les périphériques sont installés.

Message	Description	Solution
Le voyant d'alimentation est rouge.	Affiche une erreur.	La passerelle Profinet est défectueuse. Remplacez la passerelle Profinet.
Le voyant d'exécution est éteint.	Aucune connexion à un réseau.	Connectez-vous au réseau.
Le voyant d'exécution clignote en vert.	Le contrôleur Profinet est connecté, mais il n'y a pas d'échange de données.	Attendez le prochain échange de données.
Le voyant d'exécution clignote lentement en vert.	Déclenché par l'outil pour l'identification du composant passerelle.	Attendez quelques minutes.
Le voyant Diag clignote en rouge.	Déclenché par l'outil pour l'identification du composant passerelle.	Attendez quelques minutes.
Le voyant Diag clignote rapidement en rouge.	Aucune connexion au contrôleur. Aucun nom de Profinet défini dans le module.	Reportez-vous à la section Configurez la passerelle Profinet à la page 63 pour définir le nom.
Le voyant Diag est rouge.	Un dispositif de passerelle rapporte des données de diagnostic.	Consultez le rapport de diagnostic.
Le voyant L/A 1 ou 2 est éteint.	Aucune connexion à un réseau.	Connectez-vous au réseau.
Le voyant L/A 1 ou 2 clignote en vert.	Echange de données.	Patientez jusqu'à la fin de l'échange de données.

Tabla de contenidos

- | | | | |
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| 2 | Introducción en la página 70 | 7 | Configuración del gateway Ethernet/IP en la página 83 |
| 3 | Inicio de la configuración USB en la página 72 | 8 | Configuración del gateway Profinet en la página 86 |
| 4 | Ejemplos de instalación en la página 73 | 9 | Solución de problemas en la página 89 |
| 5 | Configuración del telegrama Modbus TCP del controlador SC4200c en la página 77 | | |

Sección 1 Uso previsto

Estas instrucciones de configuración están destinadas a aquellas personas que incorporan gateways Ethernet/IP o Profinet externos como componentes del hardware de la red de Claros.

Sección 2 Introducción

El fabricante no es responsable de ningún daño debido a un mal uso de este producto incluyendo, sin limitación, daños directos, fortuitos o circunstanciales y reclamaciones sobre los daños que no estén recogidos en la legislación vigente. El usuario es el responsable de la identificación de los riesgos críticos y de tener los mecanismos adecuados de protección de los procesos en caso de un posible mal funcionamiento del equipo.

⚠ PELIGRO



Peligro de electrocución. Desconecte siempre la alimentación eléctrica del instrumento antes de realizar conexiones eléctricas.

Material necesario:

- Dispositivo USB formateado como FAT32
- PC con Windows¹ 10
- Módulo:
 - Para la implementación de Ethernet/IP:
 - LXZ446.99.00001: módulo básico de GATEWAY IIoT RevPi
 - LXZ446.99.00002: esclavo de GATEWAY Ethernet/IP
 - LXZ446.99.00003: puente para PiBridge
 - Para la implementación de Profinet:
 - LXZ446.99.00001: módulo básico de GATEWAY IIoT RevPi
 - LXZ446.99.00007: esclavo de GATEWAY Profinet IRT
 - LXZ446.99.00003: puente para PiBridge

Conecte los tres módulos RevPi, esclavo y PiBridge a la corriente y la LAN.

Consulte los enlaces de la siguiente tabla para obtener más información del fabricante de los módulos.

¹ Microsoft® Windows® es una marca comercial registrada de Microsoft Corporation en Estados Unidos y otros países.

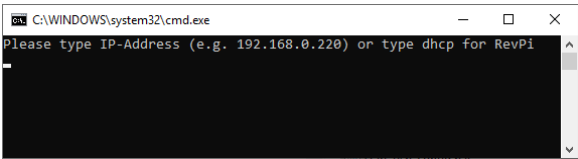
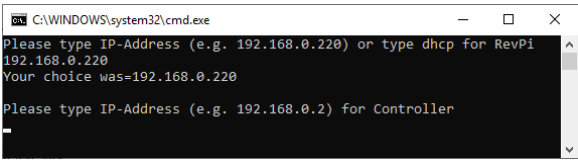
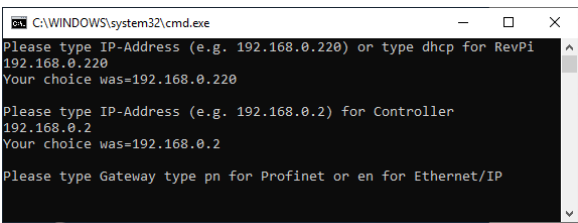
Módulo	Enlace
Esclavo de GATEWAY Profinet IRT	https://www.kunbus.com/profinet-irt-gateway-module.html
Esclavo de GATEWAY Ethernet/IP	https://www.kunbus.com/ethernet-ip-gateway-module.html
Módulo básico de GATEWAY IIoT RevPi	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
Cómo conectar los módulos RevPi	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Cómo instalar los módulos RevPi en un rail DIN	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Cómo conectar la fuente de alimentación	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

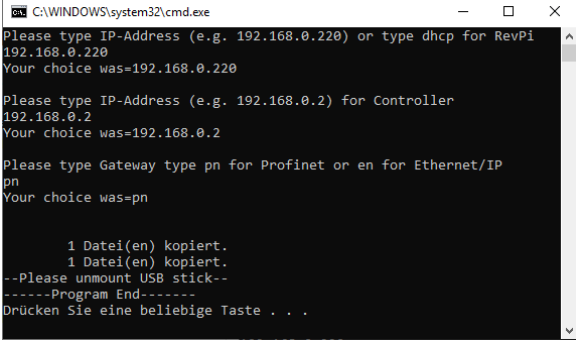


Preparación del dispositivo USB

1. Inserte un dispositivo USB vacío en el PC.
2. Vaya a <https://www.hach.com> y busque las palabras clave "usb ethernet/IP installation" (instalación ethernet/IP usb) o "usb profinet installation" (instalación profinet usb).
3. Descargue el archivo USB_ETHIP_PRNET.zip.
4. Descomprima el archivo en el directorio raíz del dispositivo USB.

Sección 3 Inicio de la configuración USB

Inserte el dispositivo USB preparado en el PC.

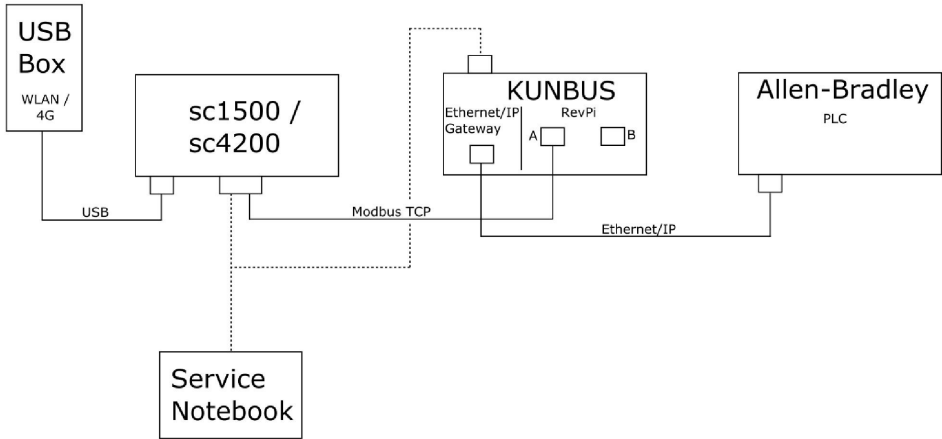
Paso	Descripción	Imagen
1	Inicie el archivo start_usb_config.bat. Se abre una ventana del terminal. Siga la guía paso a paso.	
2	Introduzca la dirección IP del módulo RevPi.	
3	Introduzca la dirección IP del controlador SC. Asegúrese de que el prefijo de la red es el mismo que el del módulo RevPi (p. ej., 192.168.0). Asegúrese de que el identificador de host es distinto al del módulo RevPi (p. ej., 220 RevPi, 2 controladores).	
4	Introduzca el tipo de gateway: <ul style="list-style-type: none">• pn – Profinet• en – Ethernet/IP	

Paso	Descripción	Imagen
5	Confirme la configuración con la tecla Intro. Retire el dispositivo USB.	
6	Inserte el dispositivo USB en la toma USB izquierda del módulo RevPi.	
7	<p>Descripción del LED:</p> <ul style="list-style-type: none"> • A1/A2 naranja: inicio de la instalación de RevPi. • A1 rojo, A2 apagado: dispositivo USB insertado en RevPi. • A1 verde, A2 apagado: dispositivo USB insertado correctamente. • A1 apagado, A2 verde: RevPi descarga/carga los datos desde el dispositivo USB. • A3 rojo: RevPi se reinicia. <p>Cuando A3 esté en rojo, retire el dispositivo USB.</p>	
8	La configuración de RevPi se ha completado.	

Sección 4 Ejemplos de instalación

La [Figura 1](#) muestra una instalación con dos conexiones LAN distintas.

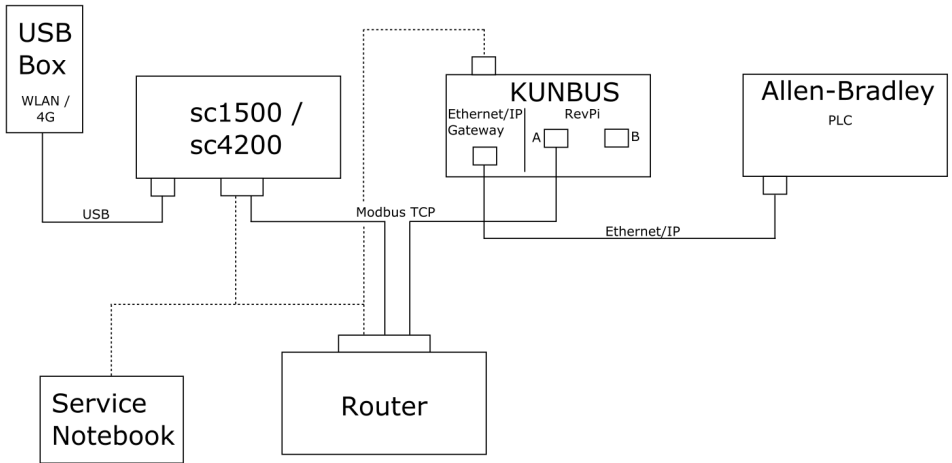
Figura 1 Ejemplo 1



- El Modbus TCP y Ethernet/IP utilizan dos conexiones LAN diferentes.
- Todos los dispositivos tienen una dirección IP estática.
- El controlador tiene acceso a Internet con WiFi o conexión móvil.
- Se requiere un ordenador portátil para establecer las direcciones IP del controlador y del gateway Ethernet/IP.

La [Figura 2](#) muestra una instalación con un router para la conexión Modbus TCP.

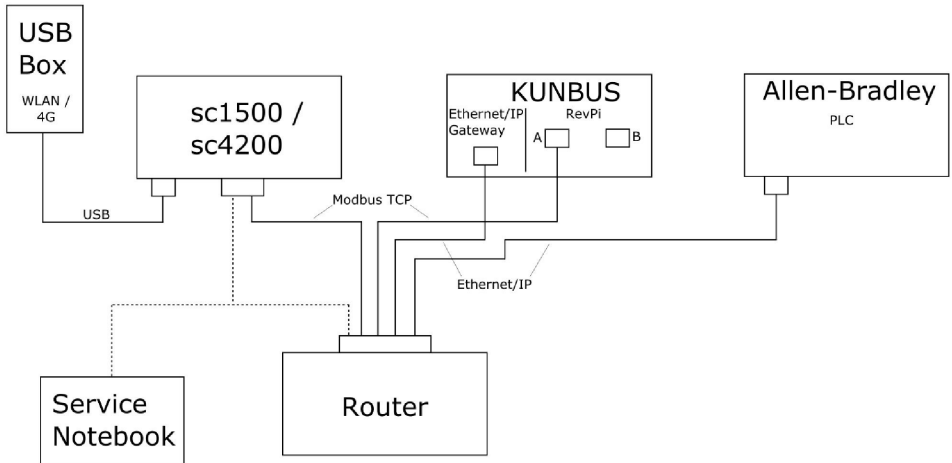
Figura 2 Ejemplo 2



- El Modbus TCP está conectado a un router.
- Todos los dispositivos tienen una dirección IP estática o el router establece la dirección IP a través del protocolo DHCP.
Nota: Asegúrese de que el router siempre utiliza la misma dirección IP para los mismos dispositivos (MAC) si se utiliza el protocolo DHCP.
- El controlador tiene acceso a Internet con WiFi o conexión móvil.
- Se requiere un ordenador portátil para establecer la dirección IP del controlador, el gateway Ethernet/IP y la configuración del router.

La [Figura 3](#) muestra una instalación con un router o conmutador para todos los dispositivos.

Figura 3 Ejemplo 3



- Todos los dispositivos están conectados con un router o conmutador.
- Todos los dispositivos tienen una dirección IP estática, o bien el router o el conmutador establecen la dirección IP a través del protocolo DHCP.
Nota: Asegúrese de que el router siempre utiliza la misma dirección IP para los mismos dispositivos (MAC) si se utiliza el protocolo DHCP.
- El controlador tiene acceso a Internet con WiFi o conexión móvil.
- Se requiere un ordenador portátil para establecer la dirección IP del controlador y la configuración del router.

Sección 5 Configuración del telegrama Modbus TCP del controlador SC4200c

Inicie la aplicación de Claros y siga las indicaciones paso a paso.

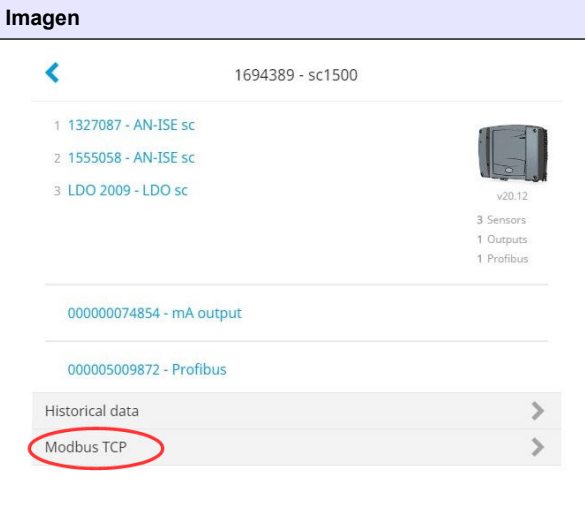
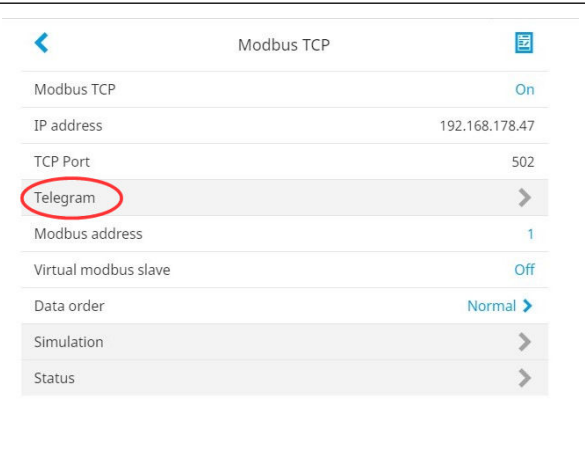
Paso	Descripción	Imagen
1	Seleccione el menú del controlador y pulse Modbus TCP .	<p>1732216 - sc4200c</p> <p>Software update is available</p> <p>1 1761925 - SOLITAX sc</p> <p>2 LDO250000001 - LDO sc</p> <p>v56.02</p> <p>2 Sensors</p> <p>2 Relays</p> <p>1 Profibus</p> <p>00000001185 - Low voltage relay</p> <p>00000001337 - High voltage relay</p> <p>000000079312 - Profibus</p> <p>Historical data</p> <p>Modbus TCP</p>
2	Seleccione Telegram (Telegrama) para configurar el telegrama Modbus TCP.	<p>MSM</p> <p>Modbus TCP</p> <p>Modbus TCP On</p> <p>IP address 10.130.33.99</p> <p>TCP Port 502</p> <p>Telegram</p> <p>Modbus address 1</p> <p>Virtual modbus slave Off</p> <p>Data order Normal</p> <p>Simulation</p> <p>Status</p>

Paso	Descripción	Imagen
3	<p>El telegrama que se muestra es un ejemplo para el sensor LDO sc.</p> <p>Establezca el heartbeat en un número entero. El heartbeat es un contador que muestra la actualización del valor en incrementos de un segundo.</p> <p><i>Nota: El contenido del telegrama Modbus TCP es el mismo que el del telegrama Profibus.</i></p>	<p>The image contains two screenshots from the MSM (Modbus Slave Manager) interface. The top screenshot shows the 'Telegram' configuration screen. It features a header with a menu icon, the MSM logo, and a user profile icon. Below the header, there is a back arrow, the title 'Telegram', and a '+ ADD SENSOR' button. A section labeled '1 devices' contains a dropdown menu with a gear icon. A text input field is filled with 'LDO250000001' and 'LDO sc'. At the bottom, there are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the configuration for the tag 'LDO250000001'. It has a header with the tag name and a 'DELETE SENSOR' link. Below, there is a list of tags: '0 Dissolved oxygen [mg/L]' with a 'float' data type, and '1 Heartbeat' with an 'integer' data type. There is also a '+ ADD NEW TAG' button. At the bottom, there are 'CANCEL' and 'OK' buttons.</p>

Paso	Descripción	Imagen
4	<p>El menú Modbus TCP muestra la dirección IP del controlador. 10.130.33.99 es la dirección IP establecida en el menú de servicio del controlador. Establezca el Modbus TCP en On para activarlo y pulse Status (Estado).</p>	
5	<p>El menú Status (Estado) muestra las estadísticas del Modbus TCP. 10.130.33.50 es la dirección IP del módulo RevPi. El módulo RevPi tiene 5 dispositivos maestros Modbus TCP.</p>	

Sección 6 Configuración del telegrama Modbus TCP del controlador SC1500

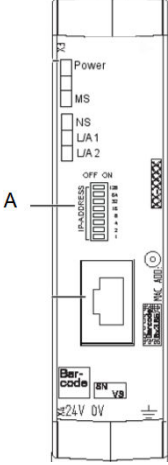
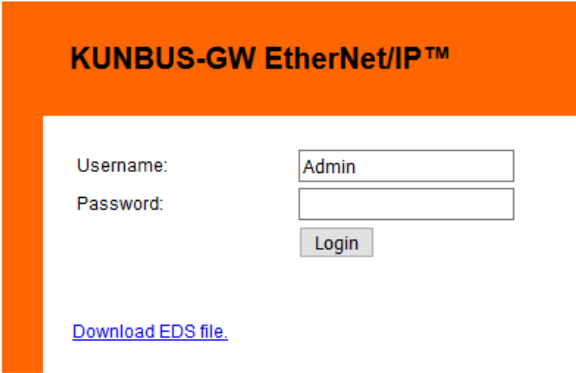
Inicie la aplicación de Claros y siga las indicaciones paso a paso.

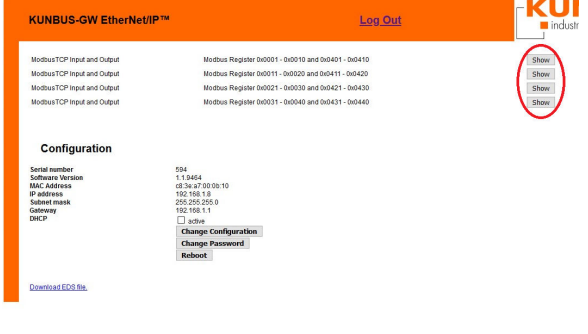
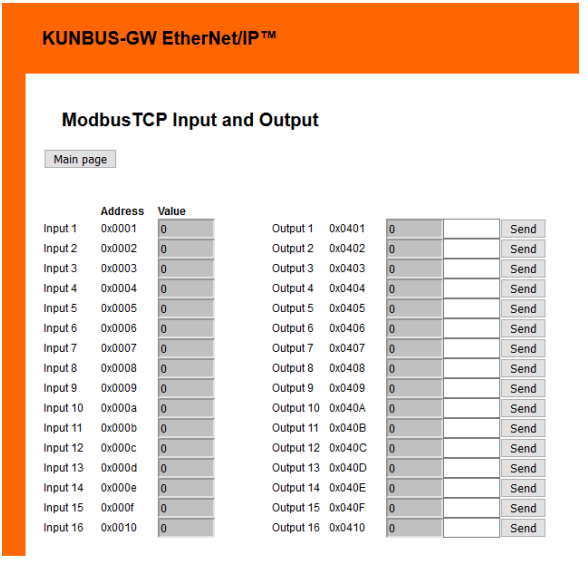
Paso	Descripción	Imagen
1	Seleccione el menú del controlador y pulse Modbus TCP .	 <p>The screenshot shows the main menu of the SC1500 controller. At the top, it displays '1694389 - sc1500'. Below this, there are three main menu items: '1 1327087 - AN-ISE sc', '2 1555058 - AN-ISE sc', and '3 LDO 2009 - LDO sc'. To the right of these items is a small image of the controller and some specifications: 'v20.12', '3 Sensors', '1 Outputs', and '1 Profibus'. Below the main menu items, there are two sub-menu items: '000000074854 - mA output' and '000005009872 - Profibus'. At the bottom, there are two more menu items: 'Historical data' and 'Modbus TCP', both with right-pointing arrows. The 'Modbus TCP' item is circled in red.</p>
2	Seleccione Telegram (Telegrama) para configurar el telegrama Modbus TCP.	 <p>The screenshot shows the configuration screen for 'Modbus TCP'. At the top, it displays 'Modbus TCP' and a small icon. Below this, there are several configuration options: 'Modbus TCP' (On), 'IP address' (192.168.178.47), 'TCP Port' (502), 'Telegram' (highlighted with a red circle and a right-pointing arrow), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal), 'Simulation' (right-pointing arrow), and 'Status' (right-pointing arrow).</p>

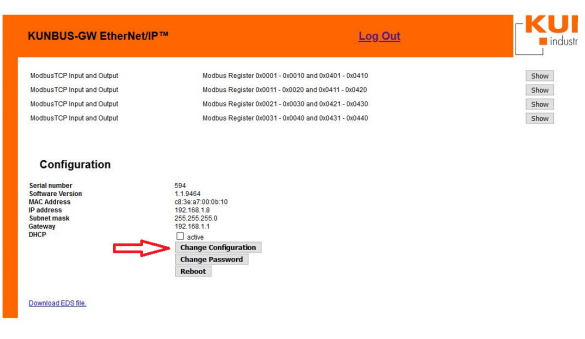
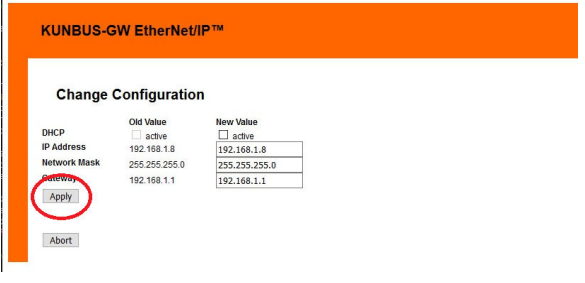
Paso	Descripción	Imagen
3	<p>El telegrama que se muestra es un ejemplo para el sensor LDO sc. Establezca el heartbeat en un número entero. El heartbeat es un contador que muestra la actualización del valor en incrementos de un segundo.</p> <p><i>Nota: El contenido del telegrama Modbus TCP es el mismo que el del telegrama Profibus.</i></p>	

Paso	Descripción	Imagen
4	<p>El menú Modbus TCP muestra la dirección IP del controlador. 192.168.178.47 es la dirección IP establecida en el menú de servicio del controlador.</p> <p>Establezca el Modbus TCP en On para activarlo y pulse Status (Estado).</p>	<p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a back arrow, the title 'Modbus TCP', and a help icon. Below are several settings: 'Modbus TCP' (On), 'IP address' (192.168.178.47), 'TCP Port' (502), 'Telegram' (with a right arrow), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal), 'Simulation' (with a right arrow), and 'Status' (with a right arrow and a red circle around it).</p>
5	<p>El menú Status (Estado) muestra las estadísticas del Modbus TCP. 192.168.178.50 es la dirección IP del módulo RevPi. El módulo RevPi tiene 7 dispositivos maestros Modbus TCP.</p>	<p>The screenshot shows the 'Status' screen with statistics for three clients. Each client's data is as follows:</p> <ul style="list-style-type: none"> Client 192.168.178.50:46338: RX Bytes: 792, TX Bytes: 4818, Accepted requests: 66, Rejected Requests: 0, Last exception: 0. Client 192.168.178.50:46340: RX Bytes: 792, TX Bytes: 4818, Accepted requests: 66, Rejected Requests: 0, Last exception: 0. Client 192.168.178.50:46342: RX Bytes: 792, TX Bytes: 4818, Accepted requests: 66, Rejected Requests: 0, Last exception: 0.

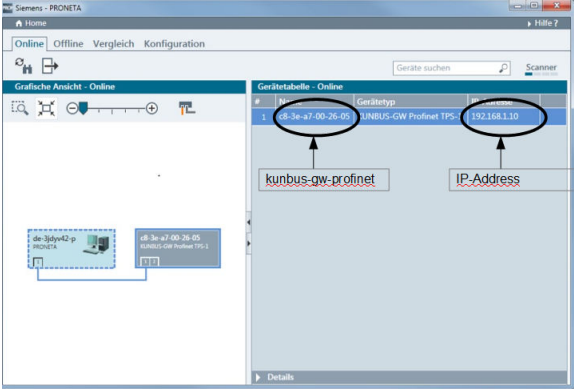
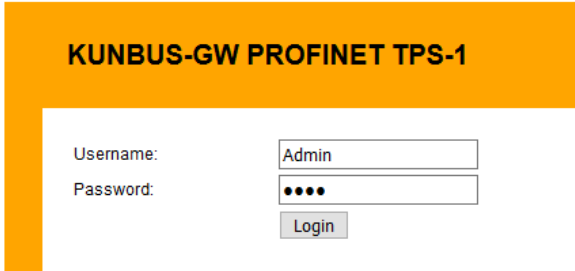
Sección 7 Configuración del gateway Ethernet/IP

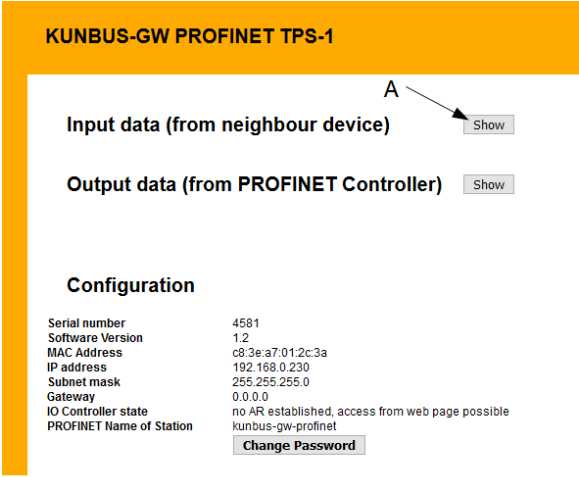
Paso	Descripción	Imagen
1	<ul style="list-style-type: none"> • Conecte el gateway Ethernet/IP al PC con el cable adaptador LAN a USB. • Consulte Introducción en la página 70. Utilice el enlace del esclavo del GATEWAY Ethernet/IP. Siga las instrucciones del manual de usuario del fabricante, <i>Componente del gateway de Ethernet/IP</i>. • Utilice el conmutador de dirección de 8 pines (A) para configurar el identificador de host en el formato binario del gateway. <ul style="list-style-type: none"> • Ejemplo: establezca el host en 8: 00010000 • Abra la página web http://192.168.1.X (X=suma de todos los conmutadores en ON). 	
2	<p>Abra el navegador e introduzca la dirección IP 192.168.1.X. Datos de acceso para el primer inicio de sesión: Usuario: Admin Contraseña: 1701 Pulse Login (Registrar).</p>	

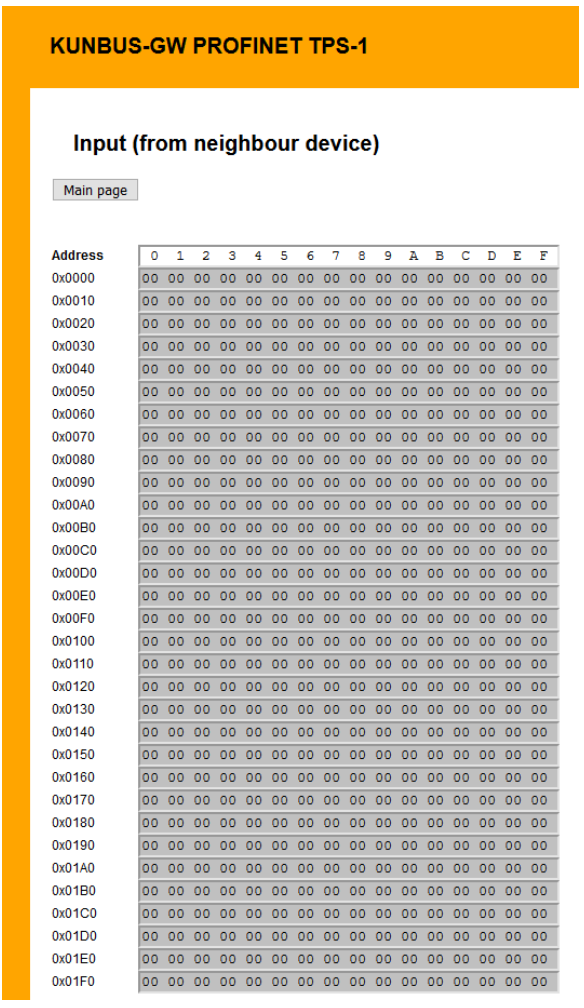
Paso	Descripción	Imagen																																																																																																																					
3	<p>El controlador y el gateway Ethernet/IP transfieren el área de datos 0000 - 01BF, que es un rango de 448 bytes, 112 números reales, 224 números enteros o una combinación de estos, en función del tipo de telegrama del Modbus TCP del controlador.</p> <p><i>Nota: Solo se muestra el primer intervalo de datos hasta 32 números enteros. Consulte todos los datos del PLC (224 números enteros).</i></p> <p>Pulse Show (Mostrar).</p>																																																																																																																						
4	<p>Se muestra el área de datos seleccionada.</p>	 <table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1</td><td>0x0001</td><td>0</td><td>Output 1</td><td>0x0401</td><td>0</td><td>Send</td></tr> <tr><td>Input 2</td><td>0x0002</td><td>0</td><td>Output 2</td><td>0x0402</td><td>0</td><td>Send</td></tr> <tr><td>Input 3</td><td>0x0003</td><td>0</td><td>Output 3</td><td>0x0403</td><td>0</td><td>Send</td></tr> <tr><td>Input 4</td><td>0x0004</td><td>0</td><td>Output 4</td><td>0x0404</td><td>0</td><td>Send</td></tr> <tr><td>Input 5</td><td>0x0005</td><td>0</td><td>Output 5</td><td>0x0405</td><td>0</td><td>Send</td></tr> <tr><td>Input 6</td><td>0x0006</td><td>0</td><td>Output 6</td><td>0x0406</td><td>0</td><td>Send</td></tr> <tr><td>Input 7</td><td>0x0007</td><td>0</td><td>Output 7</td><td>0x0407</td><td>0</td><td>Send</td></tr> <tr><td>Input 8</td><td>0x0008</td><td>0</td><td>Output 8</td><td>0x0408</td><td>0</td><td>Send</td></tr> <tr><td>Input 9</td><td>0x0009</td><td>0</td><td>Output 9</td><td>0x0409</td><td>0</td><td>Send</td></tr> <tr><td>Input 10</td><td>0x000a</td><td>0</td><td>Output 10</td><td>0x040A</td><td>0</td><td>Send</td></tr> <tr><td>Input 11</td><td>0x000b</td><td>0</td><td>Output 11</td><td>0x040B</td><td>0</td><td>Send</td></tr> <tr><td>Input 12</td><td>0x000c</td><td>0</td><td>Output 12</td><td>0x040C</td><td>0</td><td>Send</td></tr> <tr><td>Input 13</td><td>0x000d</td><td>0</td><td>Output 13</td><td>0x040D</td><td>0</td><td>Send</td></tr> <tr><td>Input 14</td><td>0x000e</td><td>0</td><td>Output 14</td><td>0x040E</td><td>0</td><td>Send</td></tr> <tr><td>Input 15</td><td>0x000f</td><td>0</td><td>Output 15</td><td>0x040F</td><td>0</td><td>Send</td></tr> <tr><td>Input 16</td><td>0x0010</td><td>0</td><td>Output 16</td><td>0x0410</td><td>0</td><td>Send</td></tr> </tbody> </table>	Address	Value				Input 1	0x0001	0	Output 1	0x0401	0	Send	Input 2	0x0002	0	Output 2	0x0402	0	Send	Input 3	0x0003	0	Output 3	0x0403	0	Send	Input 4	0x0004	0	Output 4	0x0404	0	Send	Input 5	0x0005	0	Output 5	0x0405	0	Send	Input 6	0x0006	0	Output 6	0x0406	0	Send	Input 7	0x0007	0	Output 7	0x0407	0	Send	Input 8	0x0008	0	Output 8	0x0408	0	Send	Input 9	0x0009	0	Output 9	0x0409	0	Send	Input 10	0x000a	0	Output 10	0x040A	0	Send	Input 11	0x000b	0	Output 11	0x040B	0	Send	Input 12	0x000c	0	Output 12	0x040C	0	Send	Input 13	0x000d	0	Output 13	0x040D	0	Send	Input 14	0x000e	0	Output 14	0x040E	0	Send	Input 15	0x000f	0	Output 15	0x040F	0	Send	Input 16	0x0010	0	Output 16	0x0410	0	Send
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Input 10	0x000a	0	Output 10	0x040A	0	Send																																																																																																																	
Input 11	0x000b	0	Output 11	0x040B	0	Send																																																																																																																	
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Input 14	0x000e	0	Output 14	0x040E	0	Send																																																																																																																	
Input 15	0x000f	0	Output 15	0x040F	0	Send																																																																																																																	
Input 16	0x0010	0	Output 16	0x0410	0	Send																																																																																																																	

Paso	Descripción	Imagen
5	<p>Pulse Change Configuration (Cambiar configuración) para establecer la dirección IP.</p>	 <p>The screenshot shows the 'Configuration' page of the KUNBUS-GW EtherNet/IP™ device. At the top right, there is a 'Log Out' link and the KUI logo. Below this, there are two sections for Modbus registers: 'Modbus TCP Input and Output' and 'Modbus Register' with their respective addresses and values. The main 'Configuration' section lists various parameters: Serial number (994), Software Version (1.1.0454), MAC Address (c8:36:27:0b:2b:10), IP Address (192.168.1.8), Subnet mask (255.255.255.0), Gateway (192.168.1.1), and DHCP (checked as active). A red arrow points to the 'Change Configuration' button, which is located next to 'Change Password' and 'Reboot' buttons. A 'Download FDS file' link is visible at the bottom left.</p>
6	<p>Cambie la dirección IP según la dirección del gateway.</p> <p>Pulse Apply (Aplicar) para confirmar.</p> <p>Desconecte todos los conmutadores DIP.</p> <p>Apague la alimentación del gateway y reiniciela. Ya se puede utilizar la nueva dirección IP.</p>	 <p>The screenshot shows the 'Change Configuration' page of the KUNBUS-GW EtherNet/IP™ device. It features a table with 'Old Value' and 'New Value' columns. The parameters are: DHCP (checked as active), IP Address (192.168.1.8), Network Mask (255.255.255.0), and Gateway (192.168.1.1). The 'Apply' button is circled in red, and an 'Abort' button is located below it.</p>

Sección 8 Configuración del gateway Profinet

Paso	Descripción	Imagen
1	<ul style="list-style-type: none"> • Conecte el gateway Profinet al PC con el adaptador LAN a LAN. • Consulte Introducción en la página 70. Utilice el enlace del esclavo del GATEWAY Profinet IRT. Siga las instrucciones del manual de usuario del fabricante <i>Componente del gateway de PROFINET</i>. • Utilice el software PRONETA para cambiar el nombre a kunbus-gw-profinet. • Introduzca la dirección IP utilizada. 	 <p>The screenshot shows the Siemens PRONETA software interface. On the left, there is a 'Grafische Ansicht - Online' window showing a network diagram with two devices connected. On the right, there is a 'Gerätetabelle - Online' window with a table of devices. The table has columns for '#', 'Gerätetyp', and 'IP-Adresse'. The first row shows a device with ID '05-3e-47-00-26-05', type 'KUNBUS-GW Profinet TPS-1', and IP address '192.168.1.10'. Red circles highlight the device ID and the IP address. Red arrows point from the text 'kunbus-gw-profinet' and 'IP-Address' below to the corresponding cells in the table.</p>
2	<p>Abra el navegador e introduzca la dirección IP. Datos de acceso para el primer inicio de sesión:</p> <p>Usuario: Admin Contraseña: 1701</p> <p>Pulse Login (Registrar).</p>	 <p>The screenshot shows the login page for the KUNBUS-GW PROFINET TPS-1 gateway. The page has a yellow header with the text 'KUNBUS-GW PROFINET TPS-1'. Below the header, there is a white box containing the login form. The form has two fields: 'Username:' with the value 'Admin' and 'Password:' with three dots. Below the password field is a 'Login' button.</p>

Paso	Descripción	Imagen																
3	Pulse Show (Mostrar) (A) para mostrar los datos de entrada.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table border="0"> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
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Paso	Descripción	Imagen																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
4	<p>Muestra todos los datos enviados desde el controlador al gateway Profinet.</p> <p>El controlador y el gateway Profinet transfieren el área de datos 0000 - 01BF, que es un rango de 448 bytes, 112 números reales, 224 números enteros o una combinación de estos, en función del tipo de telegrama del Modbus TCP del controlador.</p>	 <p style="text-align: center;">KUNBUS-GW PROFINET TPS-1</p> <p style="text-align: center;">Input (from neighbour device)</p> <p style="text-align: center;">Main page</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Address</th> <th>0</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th> </tr> </thead> <tbody> 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Sección 9 Solución de problemas

9.1 Solución de problemas de RevPi

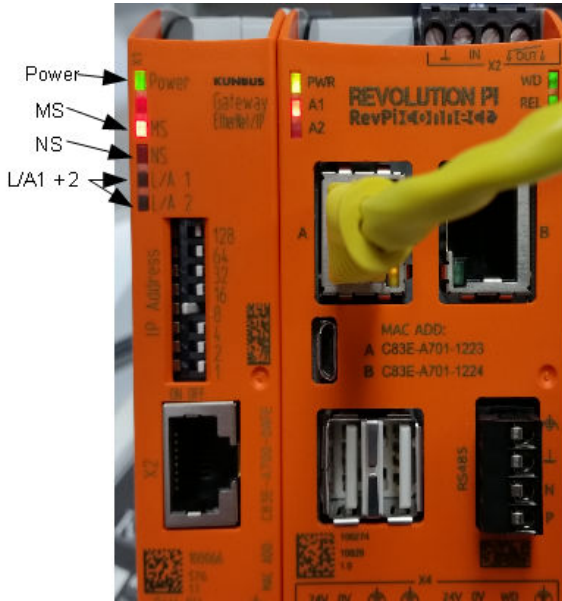
Figura 4 Módulo básico de RevPi



Mensaje	Descripción	Solución
El LED A2 parpadea en rojo.	La comunicación se ha detenido.	<ul style="list-style-type: none">• Conecte el cable de red (cable o router).• Establezca la configuración de la dirección de Modbus de Claros en el valor 1.• Conecte el Modbus TCP en el menú de Claros.
El LED A3 parpadea lentamente en rojo.	La configuración de los gateway Ethernet/IP y Profinet es errónea.	Consulte Inicio de la configuración USB en la página 72 (paso 4) y seleccione el tipo de gateway adecuado: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Solución de problemas de Ethernet/IP

Figura 5 Gateway Ethernet/IP

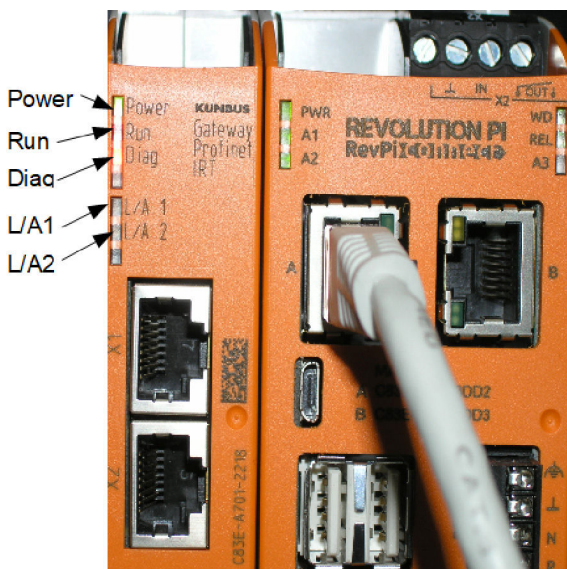


Mensaje	Descripción	Solución
El LED de energía está apagado.	El gateway Ethernet/IP está desconectado.	Conecte la alimentación.
El LED de energía parpadea en verde.	El procedimiento de arranque no se ha completado.	Espere unos minutos.
El LED de energía parpadea en rojo.	Muestra una advertencia.	Compruebe si todos los dispositivos están conectados.
El LED de energía está en rojo.	Muestra un error.	El gateway Ethernet/IP está defectuoso. Sustituya el gateway Ethernet/IP.
El LED MS está apagado.	El gateway Ethernet/IP está desconectado.	Conecte la alimentación.
El LED MS parpadea en verde.	El procedimiento de configuración no se ha completado.	Espere unos minutos.
El LED MS parpadea en rojo.	Muestra un error de configuración.	Consulte Configuración del gateway Ethernet/IP en la página 83 para comprobar la configuración.
El LED MS está en rojo.	Muestra un error.	El gateway Ethernet/IP está defectuoso. Sustituya el gateway Ethernet/IP.
El LED MS parpadea en rojo y verde.	La autocomprobación no se ha completado.	Espere unos minutos.

Mensaje	Descripción	Solución
El LED NS está apagado.	El gateway Ethernet/IP no está conectado ni tiene dirección IP.	Conecte la alimentación. Establezca la dirección IP.
El LED NS parpadea en verde.	Se ha establecido la dirección IP, pero no la conexión CIP.	Espere unos minutos.
El LED NS parpadea en rojo.	La conexión CIP se ha detenido.	Compruebe si hay un tiempo de espera.
El LED NS está en rojo.	Otro dispositivo utiliza la dirección IP seleccionada.	Cambie la dirección IP por una dirección IP única.
El LED L/A 1 o 2 está apagado.	No hay conexión con otros dispositivos.	Conéctelo a un dispositivo.
El LED L/A 1 o 2 parpadea en verde.	No hay intercambio de datos.	Espere hasta el siguiente intercambio de datos.

9.3 Solución de problemas de Profinet

Figura 6 Gateway Profinet



Mensaje	Descripción	Solución
El LED de energía está apagado.	El gateway Profinet está desconectado.	Conecte la alimentación.
El LED de energía parpadea en verde.	El procedimiento de arranque no se ha completado.	Espere unos minutos.
El LED de energía parpadea en rojo.	Muestra una advertencia.	Compruebe si todos los dispositivos están instalados.

Mensaje	Descripción	Solución
El LED de energía está en rojo.	Muestra un error.	El gateway Profinet está defectuoso. Sustituya el gateway Profinet.
El LED de ejecución está apagado.	No hay conexión a una red.	Conéctese a la red.
El LED de ejecución parpadea en verde.	El controlador Profinet está conectado, pero no hay intercambio de datos.	Espere hasta el siguiente intercambio de datos.
El LED de ejecución parpadea lentamente en verde.	Se activa con una herramienta que identifica el componente del gateway.	Espere unos minutos.
El LED de diagnóstico parpadea en rojo.	Se activa con una herramienta que identifica el componente del gateway.	Espere unos minutos.
El LED de diagnóstico parpadea rápidamente en rojo.	No hay conexión con el controlador. No se ha establecido ningún nombre de Profinet en el módulo.	Consulte Configuración del gateway Profinet en la página 86 para establecer el nombre.
El LED de diagnóstico está en rojo.	Un dispositivo de gateway informa de los datos de diagnóstico.	Consulte el informe de diagnóstico.
El LED L/A 1 o 2 está apagado.	No hay conexión a una red.	Conéctese a la red.
El LED L/A 1 o 2 parpadea en verde.	Hay intercambio de datos.	Espere hasta se haya completado el intercambio de datos.

Sommario

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| 2 | Introduzione a pagina 93 | 7 | Configurazione del gateway Ethernet/IP a pagina 105 |
| 3 | Avvio della configurazione della chiavetta USB a pagina 95 | 8 | Configurazione del gateway Profinet a pagina 108 |
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| 5 | Configurazione del telegramma Modbus TCP del controller SC4200c a pagina 99 | | |

Sezione 1 Uso previsto

Queste istruzioni di configurazione sono rivolte a coloro che integrano il gateway Ethernet/IP esterno o il gateway Profinet come componenti hardware nella rete Claros.

Sezione 2 Introduzione

Il produttore non sarà da ritenersi responsabile in caso di danni causati dall'applicazione errata o dall'uso errato di questo prodotto inclusi, a puro titolo esemplificativo e non limitativo, i danni diretti, incidentali e consequenziali; inoltre declina qualsiasi responsabilità per tali danni entro i limiti previsti dalle leggi vigenti. La responsabilità relativa all'identificazione dei rischi critici dell'applicazione e all'installazione di meccanismi appropriati per proteggere le attività in caso di eventuale malfunzionamento dell'apparecchiatura compete unicamente all'utilizzatore.

⚠ PERICOLO



Pericolo di folgorazione. Quando si eseguono collegamenti elettrici, scollegare sempre l'alimentazione dello strumento.

Articoli necessari:

- Chiavetta USB formattata come FAT32
- PC con Windows¹ 10
- Modulo:
 - Per implementazione Ethernet/IP:
 - LXZ446.99.00001: modulo di base GATEWAY IloT RevPi
 - LXZ446.99.00002: slave GATEWAY Ethernet/IP
 - LXZ446.99.00003: jumper per PiBridge
 - Per implementazione Profinet:
 - LXZ446.99.00001: modulo di base GATEWAY IloT RevPi
 - LXZ446.99.00007: slave GATEWAY Profinet IRT
 - LXZ446.99.00003: jumper per PiBridge

Collegare i tre moduli RevPi, slave e PiBridge all'alimentazione e alla LAN.

Fare riferimento ai collegamenti nella seguente tabella per ulteriori informazioni dal produttore dei moduli.

¹ Microsoft® Windows® è un marchio registrato di Microsoft Corporation negli Stati Uniti e in altri paesi.

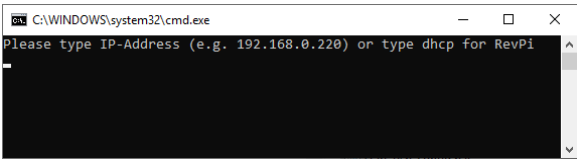
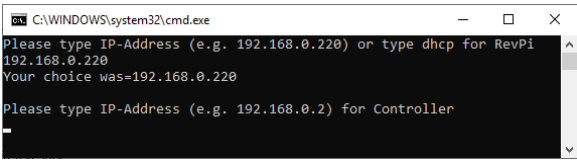
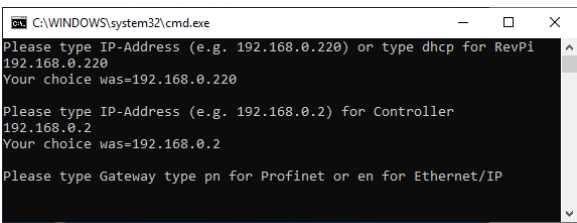
Modulo	Collegamento
Slave GATEWAY Profinet IRT	https://www.kunbus.com/profinet-irt-gateway-module.html
Slave GATEWAY Ethernet/IP	https://www.kunbus.com/ethernet-ip-gateway-module.html
Modulo di base GATEWAY IIoT RevPi	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
Come collegare i moduli RevPi	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Come installare i moduli RevPi su una guida DIN	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Come collegare l'alimentazione	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

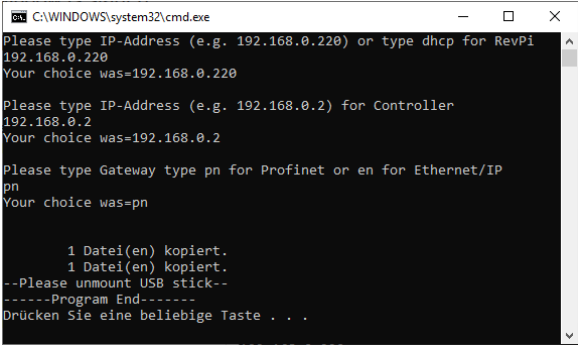


Preparazione della chiavetta USB

1. Inserire una chiavetta USB vuota nel PC.
2. Andare al sito <https://www.hach.com> e cercare le parole chiave "USB Ethernet/IP installation" (Installazione USB Ethernet/IP) o "USB Profinet installation" (Installazione USB Profinet).
3. Scaricare USB_ETHIP_PRNET.zip.
4. Decomprimere il file nella directory principale della chiavetta USB.

Sezione 3 Avvio della configurazione della chiavetta USB

Inserire nel PC la chiavetta USB preparata.

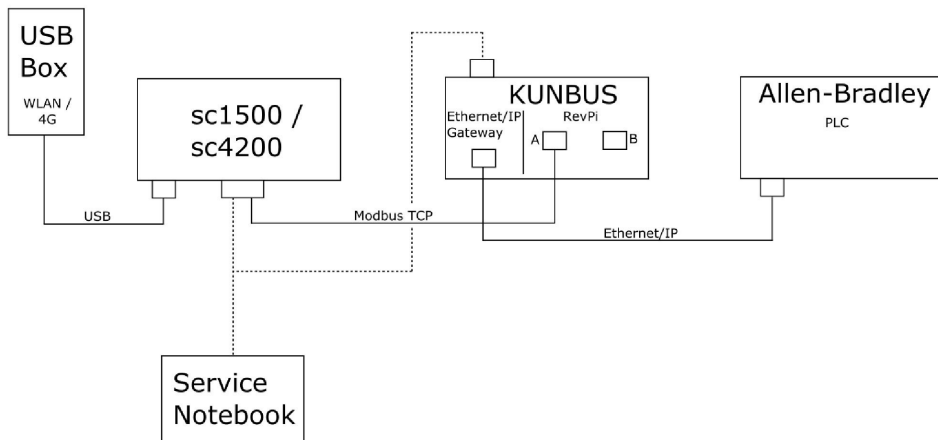
Punto	Descrizione	Immagine
1	Avviare il file start_usb_config.bat. Si apre una finestra terminale. Seguire la guida dettagliata.	
2	Immettere l'indirizzo IP del modulo RevPi.	
3	Immettere l'indirizzo IP del controller SC. Assicurarsi che il prefisso di rete sia lo stesso del modulo RevPi (ad esempio 192.168.0). Assicurarsi che l'identificatore dell'host sia diverso dal modulo RevPi (ad esempio 220 RevPi, 2 controller).	
4	Immettere il tipo di gateway: <ul style="list-style-type: none">• pn: Profinet• en: Ethernet/IP	

Punto	Descrizione	Immagine
5	<p>Confermare le impostazioni con Invio. Rimuovere la chiavetta USB.</p>	 <pre> C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi 192.168.0.220 Your choice was=192.168.0.220 Please type IP-Address (e.g. 192.168.0.2) for Controller 192.168.0.2 Your choice was=192.168.0.2 Please type Gateway type pn for Profinet or en for Ethernet/IP pn Your choice was=pn 1 Datei(en) kopiert. 1 Datei(en) kopiert. --Please unmount USB stick-- -----Program End----- Drücken Sie eine beliebige Taste . . . </pre>
6	<p>Inserire la chiavetta USB nella porta USB sinistra del modulo RevPi.</p>	
7	<p>Descrizione dei LED:</p> <ul style="list-style-type: none"> • A1/A2 arancione: RevPi, installazione avviata. • A1 rosso, A2 spento: RevPi, inserire chiavetta USB. • A1 verde, A2 spento: chiavetta USB inserita correttamente. • A1 spento, A2 verde: RevPi, download/upload di dati dalla chiavetta USB. • A3 rosso: RevPi, riavvio. <p>Quando il LED A3 è rosso, rimuovere la chiavetta USB.</p>	
8	<p>Le impostazioni RevPi sono complete.</p>	

Sezione 4 Esempi di installazione

Figura 1 mostra un'installazione con due diverse connessioni LAN.

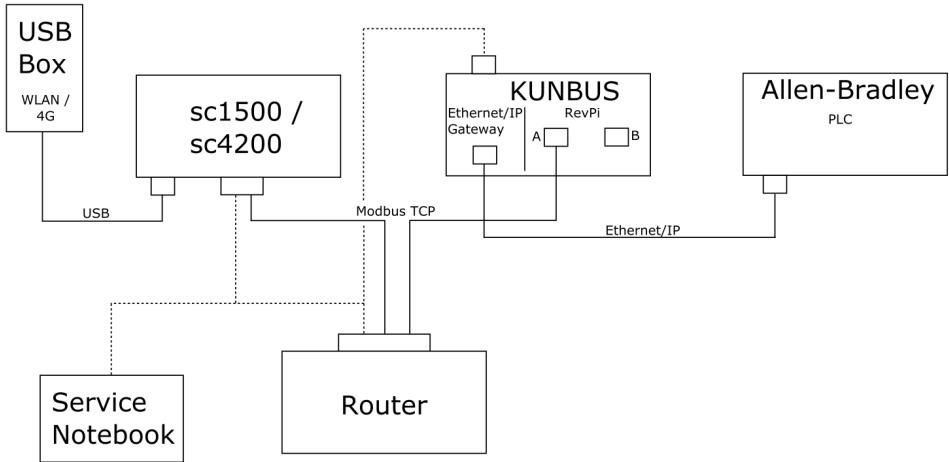
Figura 1 Esempio 1



- Modbus TCP ed Ethernet/IP utilizzano due connessioni LAN diverse.
- Tutti i dispositivi hanno un indirizzo IP statico.
- Il controller dispone di accesso a Internet con connessione Wi-Fi o cellulare.
- Per configurare gli indirizzi IP del controller e del gateway Ethernet/IP, è necessario un computer portatile.

Figura 2 mostra un'installazione con un router per la connessione del Modbus TCP.

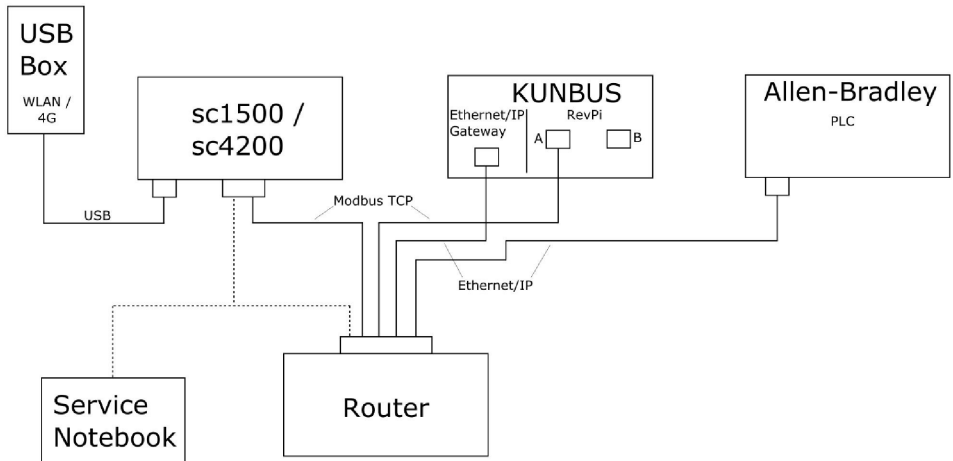
Figura 2 Esempio 2



- Il Modbus TCP è collegato a un router.
- Tutti i dispositivi hanno un indirizzo IP statico o il router imposta l'indirizzo IP tramite DHCP.
Nota: assicurarsi che il router utilizzi sempre lo stesso indirizzo IP per gli stessi dispositivi (MAC) se viene utilizzato DHCP.
- Il controller dispone di accesso a Internet con connessione Wi-Fi o cellulare.
- Per configurare l'indirizzo IP del controller, il gateway Ethernet/IP e le impostazioni del router, è necessario un computer portatile.

Figura 3 mostra un'installazione con un router o uno switch per tutti i dispositivi.

Figura 3 Esempio 3

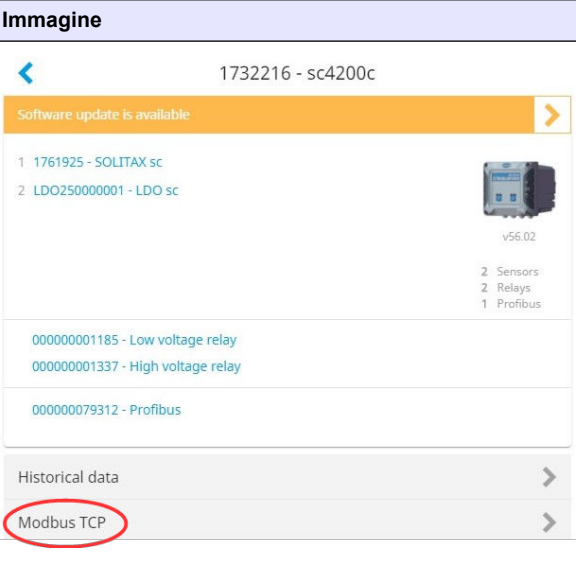
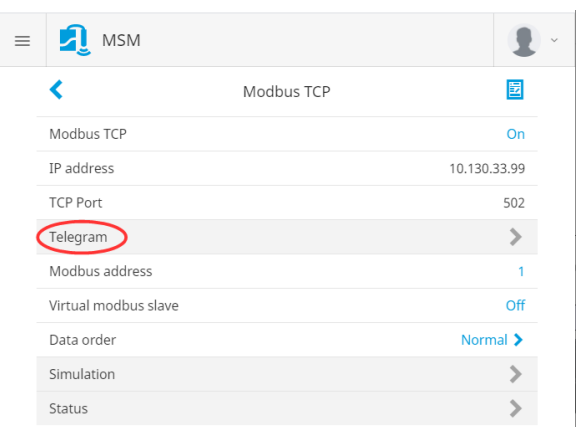


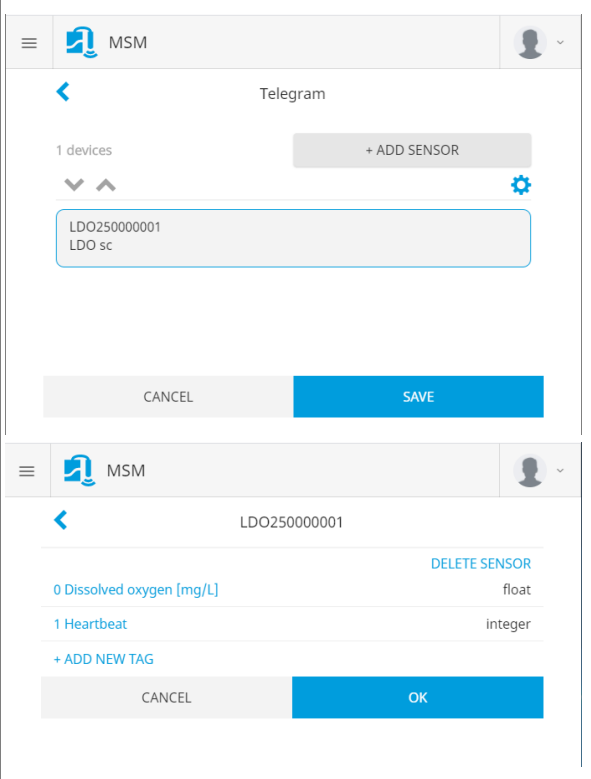
- Tutti i dispositivi sono connessi con un router o uno switch.

- Tutti i dispositivi hanno un indirizzo IP statico oppure il router o lo switch imposta l'indirizzo IP tramite DHCP.
Nota: assicurarsi che il router utilizzi sempre lo stesso indirizzo IP per gli stessi dispositivi (MAC) se viene utilizzato DHCP.
- Il controller dispone di accesso a Internet con connessione Wi-Fi o cellulare.
- Per configurare l'indirizzo IP del controller e le impostazioni del router, è necessario un computer portatile.

Sezione 5 Configurazione del telegramma Modbus TCP del controller SC4200c

Avviare l'applicazione Claros e seguire la guida dettagliata.

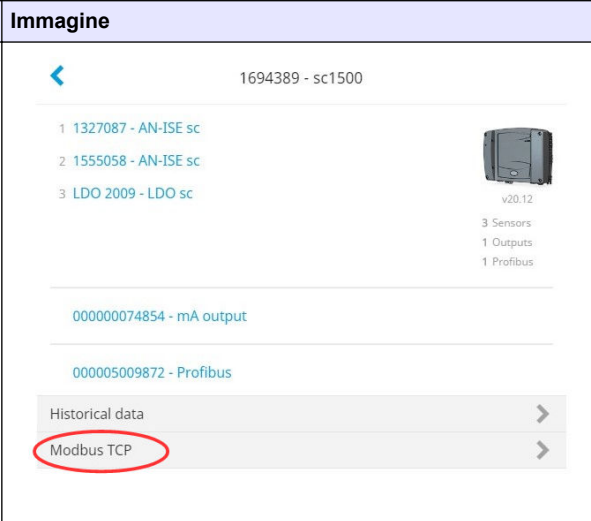
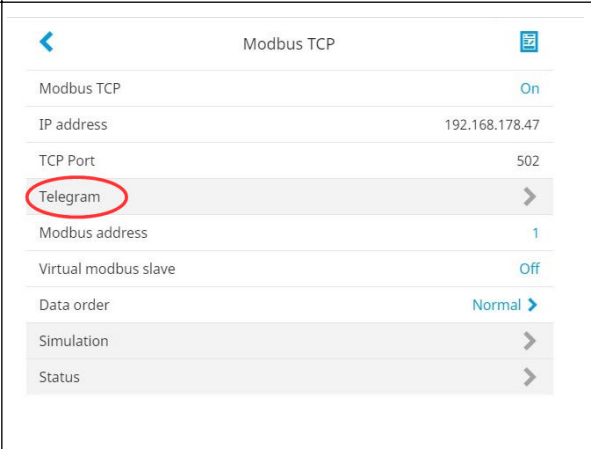
Punto	Descrizione	Immagine
1	Selezionare il menu del controller, quindi premere Modbus TCP .	 <p>The screenshot shows the Claros app interface for a device labeled '1732216 - sc4200c'. At the top, there is a blue back arrow and the device ID. Below that is an orange banner that says 'Software update is available' with a right-pointing arrow. Underneath, there are two device entries: '1 1761925 - SOLITAX sc' and '2 LDO250000001 - LDO sc'. To the right of these entries is a small image of the controller and the text 'v56.02'. Below the device entries, there are three rows of data: '000000001185 - Low voltage relay', '000000001337 - High voltage relay', and '000000079312 - Profibus'. At the bottom, there are two menu items: 'Historical data' and 'Modbus TCP', both with right-pointing arrows. The 'Modbus TCP' item is circled in red.</p>
2	Selezionare Telegram (Telegramma) per impostare il telegramma TCP Modbus.	 <p>The screenshot shows the Claros app interface for a device labeled 'MSM'. At the top, there is a hamburger menu icon, the 'MSM' logo, and a user profile icon. Below that is a blue back arrow and the title 'Modbus TCP' with a document icon. The main content area shows several settings: 'Modbus TCP' (On), 'IP address' (10.130.33.99), 'TCP Port' (502), 'Telegram' (highlighted with a red circle), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal), 'Simulation', and 'Status'. Each setting has a right-pointing arrow.</p>

Punto	Descrizione	Immagine
3	<p>Il telegramma mostrato è un esempio per il sensore LDO sc.</p> <p>Impostare l'heartbeat su integer. L'heartbeat è un contatore che mostra l'aggiornamento del valore a incrementi di un secondo.</p> <p><i>Nota: il contenuto del telegramma Modbus TCP è lo stesso del telegramma Profibus.</i></p>	 <p>The image contains two screenshots from the MSM (Modbus Slave Manager) interface. The top screenshot shows the 'Telegram' configuration screen for a device with ID 'LDO250000001'. The device name is 'LDO sc'. There is a '+ ADD SENSOR' button and a gear icon for settings. At the bottom are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the configuration for the specific device 'LDO250000001'. It lists two tags: '0 Dissolved oxygen [mg/L]' with a 'float' data type, and '1 Heartbeat' with an 'integer' data type. There is a '+ ADD NEW TAG' button and 'CANCEL' and 'OK' buttons at the bottom.</p>

Punto	Descrizione	Immagine																								
4	<p>Il menu Modbus TCP mostra l'indirizzo IP del controller. 10.130.33.99 è l'indirizzo IP impostato nel menu di assistenza del controller. Impostare il Modbus TCP su On, quindi premere Status (Stato).</p>	<p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a back arrow, the title 'Modbus TCP', and a help icon. Below are several settings: 'Modbus TCP' (On), 'IP address' (10.130.33.99), 'TCP Port' (502), 'Telegram' (with a right arrow), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal with a right arrow), 'Simulation' (with a right arrow), and 'Status' (with a right arrow). Red circles highlight the 'On' toggle, the '10.130.33.99' IP address, and the 'Status' option.</p>																								
5	<p>Il menu dello stato mostra le statistiche del Modbus TCP. 10.130.33.50 è l'indirizzo IP del modulo RevPi. RevPi ha 5 Modbus TCP master.</p>	<p>The screenshot shows the 'Status' screen with statistics for three clients. Each client section includes: Client IP, RX Bytes, TX Bytes, Accepted requests, Rejected Requests, and Last exception. The clients are identified by their IP addresses: 10.130.33.50:46338, 10.130.33.50:46340, and 10.130.33.50:46342.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>10.130.33.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	10.130.33.50:46338	792	4818	66	0	0	10.130.33.50:46340	792	4818	66	0	0	10.130.33.50:46342	792	4818	66	0	0
Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception																					
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10.130.33.50:46340	792	4818	66	0	0																					
10.130.33.50:46342	792	4818	66	0	0																					

Sezione 6 Configurazione del telegramma Modbus TCP del controller SC1500

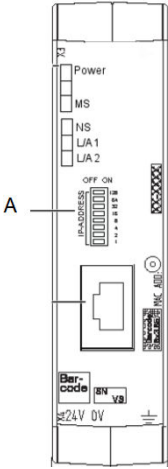
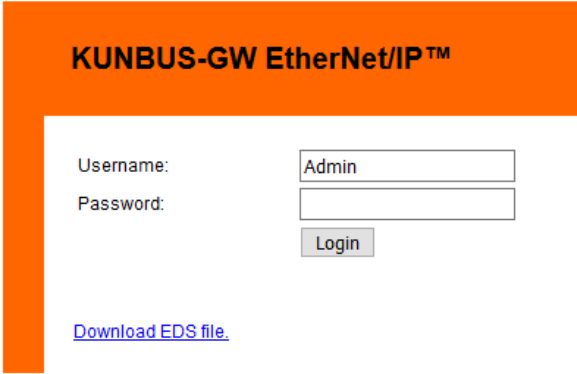
Avviare l'applicazione Claros e seguire la guida dettagliata.

Punto	Descrizione	Immagine
1	Selezionare il menu del controller, quindi premere Modbus TCP .	
2	Selezionare Telegram (Telegramma) per impostare il telegramma TCP Modbus.	

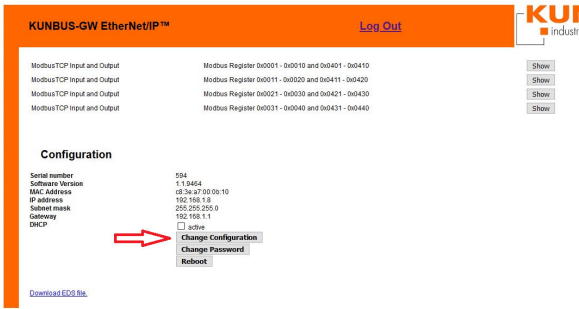
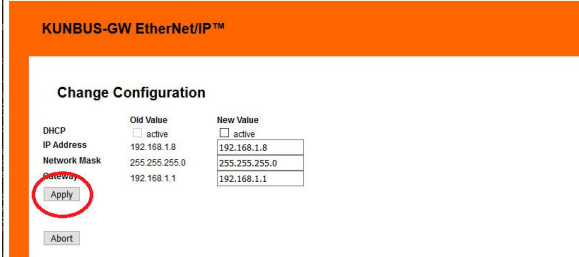
Punto	Descrizione	Immagine
3	<p>Il telegramma mostrato è un esempio per il sensore LDO sc.</p> <p>Impostare l'heartbeat su integer. L'heartbeat è un contatore che mostra l'aggiornamento del valore a incrementi di un secondo.</p> <p><i>Nota: il contenuto del telegramma Modbus TCP è lo stesso del telegramma Profibus.</i></p>	<p>The image displays two screenshots of a configuration interface. The top screenshot, titled "Telegram", shows a list of devices with "1 devices" and a "+ ADD SENSOR" button. A device "LDO 2009 LDO sc" is listed. Below the list are "CANCEL" and "SAVE" buttons. The bottom screenshot, titled "LDO 2009", shows two tags: "0 Dissolved oxygen [mg/L]" with a value of "0" and a unit of "float", and "1 Heartbeat" with a value of "1" and a unit of "integer". There is a "DELETE SENSOR" link, a "+ ADD NEW TAG" button, and "CANCEL" and "OK" buttons at the bottom.</p>

Punto	Descrizione	Immagine																								
4	<p>Il menu Modbus TCP mostra l'indirizzo IP del controller. 192.168.178.47 è l'indirizzo IP impostato nel menu di assistenza del controller. Impostare il Modbus TCP su On, quindi premere Status (Stato).</p>	<p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a back arrow, the title 'Modbus TCP', and a help icon. Below are several settings: 'Modbus TCP' is turned 'On'; 'IP address' is set to '192.168.178.47'; 'TCP Port' is '502'; 'Telegram' has a right arrow; 'Modbus address' is '1'; 'Virtual modbus slave' is 'Off'; 'Data order' is 'Normal'; 'Simulation' has a right arrow; and 'Status' is highlighted with a right arrow.</p>																								
5	<p>Il menu dello stato mostra le statistiche del Modbus TCP. 192.168.178.50 è l'indirizzo IP del modulo RevPi. RevPi ha 7 Modbus TCP master.</p>	<p>The screenshot shows the 'Status' screen with three sections of statistics for different Modbus TCP masters. Each section includes the master's IP address and the following statistics: RX Bytes, TX Bytes, Accepted requests, Rejected Requests, and Last exception.</p> <table border="1"> <thead> <tr> <th>Client IP</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>192.168.178.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client IP	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	192.168.178.50:46338	792	4818	66	0	0	192.168.178.50:46340	792	4818	66	0	0	192.168.178.50:46342	792	4818	66	0	0
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192.168.178.50:46342	792	4818	66	0	0																					

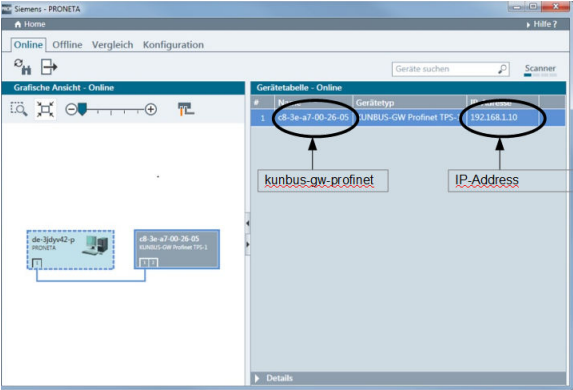
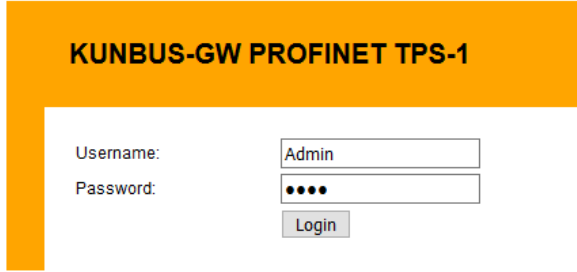
Sezione 7 Configurazione del gateway Ethernet/IP

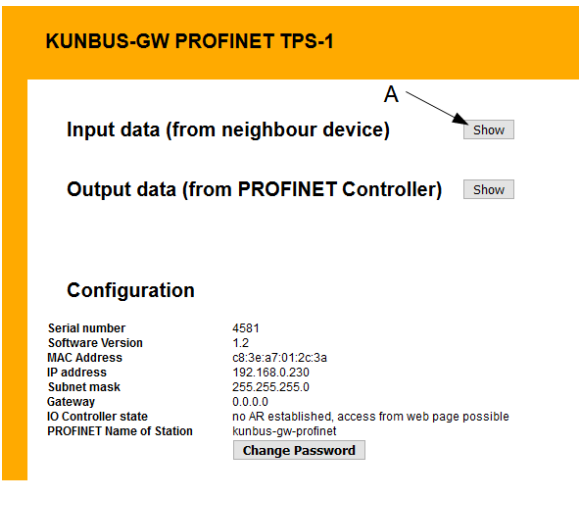
Punto	Descrizione	Immagine
1	<ul style="list-style-type: none"> • Collegare il gateway Ethernet/IP al PC con il cavo adattatore LAN-USB. • Fare riferimento a Introduzione a pagina 93. Utilizzare il collegamento dello slave GATEWAY IP/Ethernet. Seguire le istruzioni riportate nel manuale per l'utente fornito dal produttore, <i>Componente Gateway per Ethernet/IP</i>. • Utilizzare il commutatore di indirizzo a 8 pin (A) per impostare l'identificatore host sul formato binario del gateway. <ul style="list-style-type: none"> • Esempio: impostare l'host su 8: 00010000 • Aprire il sito Web http://192.168.1.X (X=somma di tutti i commutatori impostati su ON). 	 <p>Il diagramma mostra il pannello frontale del gateway Ethernet/IP. In alto a sinistra c'è un interruttore "Power". Sotto di esso ci sono indicatori "MS", "N/S", "LIA 1" e "LIA 2". Al centro c'è un commutatore a 8 pin (A) con un'etichetta "OFF ON" e "8 PIN". Sotto il commutatore c'è un'etichetta "Bar-code" con i campi "BIN" e "V8". In basso a sinistra c'è un'etichetta "24V 0V".</p>
2	<p>Aprire il browser e immettere l'indirizzo IP 192.168.1.X. Dati di accesso per il primo accesso: Nome utente: Admin Password: 1701 Premere Login (Accedi).</p>	 <p>Lo screenshot mostra la pagina di login del gateway KUNBUS-GW EtherNet/IP™. Il titolo della pagina è "KUNBUS-GW EtherNet/IP™". Sotto il titolo c'è un campo "Username:" con il valore "Admin" inserito. Sotto il campo "Username:" c'è un campo "Password:" vuoto. Sotto il campo "Password:" c'è un pulsante "Login". In basso a sinistra c'è un link "Download EDS file".</p>

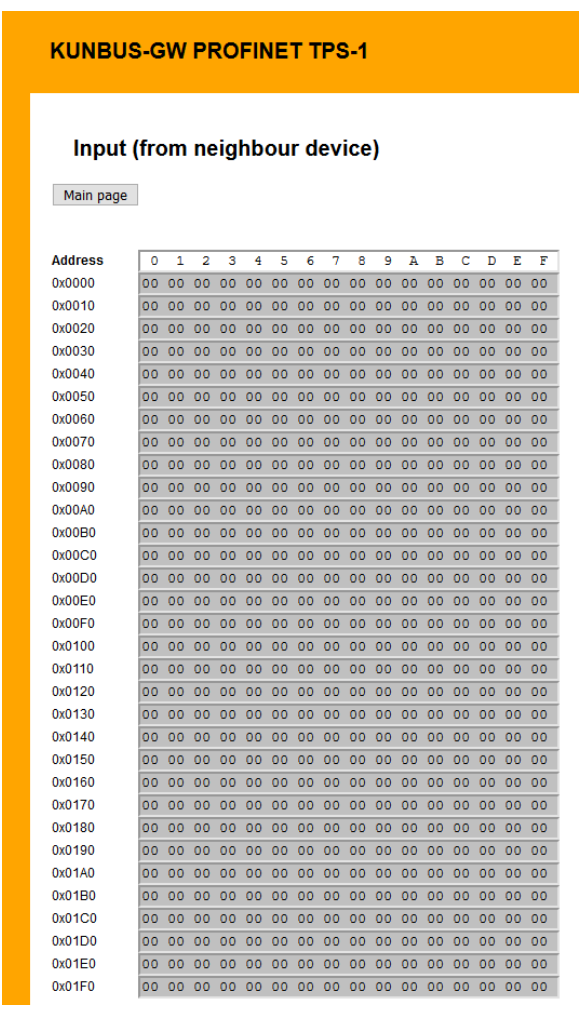
Punto	Descrizione	Immagine																																																																																																																					
3	<p>Il controller e il gateway Ethernet/IP trasferiscono l'area dati 0000 - 01BF, che è un intervallo di 448 byte o 112 float o 224 integer o un insieme di essi, in base al tipo di telegramma del Modbus TCP nel controller.</p> <p><i>Nota: Viene visualizzato solo il primo intervallo di dati fino a 32 integer. È possibile visualizzare tutti i dati nel PLC (224 integer).</i></p> <p>Premere Show (Mostra).</p>																																																																																																																						
4	<p>Viene visualizzata l'area dati selezionata.</p>	<table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1</td><td>0x0001</td><td>0</td><td>Output 1</td><td>0x0401</td><td>0</td><td>Send</td></tr> <tr><td>Input 2</td><td>0x0002</td><td>0</td><td>Output 2</td><td>0x0402</td><td>0</td><td>Send</td></tr> <tr><td>Input 3</td><td>0x0003</td><td>0</td><td>Output 3</td><td>0x0403</td><td>0</td><td>Send</td></tr> <tr><td>Input 4</td><td>0x0004</td><td>0</td><td>Output 4</td><td>0x0404</td><td>0</td><td>Send</td></tr> <tr><td>Input 5</td><td>0x0005</td><td>0</td><td>Output 5</td><td>0x0405</td><td>0</td><td>Send</td></tr> <tr><td>Input 6</td><td>0x0006</td><td>0</td><td>Output 6</td><td>0x0406</td><td>0</td><td>Send</td></tr> <tr><td>Input 7</td><td>0x0007</td><td>0</td><td>Output 7</td><td>0x0407</td><td>0</td><td>Send</td></tr> <tr><td>Input 8</td><td>0x0008</td><td>0</td><td>Output 8</td><td>0x0408</td><td>0</td><td>Send</td></tr> <tr><td>Input 9</td><td>0x0009</td><td>0</td><td>Output 9</td><td>0x0409</td><td>0</td><td>Send</td></tr> <tr><td>Input 10</td><td>0x000A</td><td>0</td><td>Output 10</td><td>0x040A</td><td>0</td><td>Send</td></tr> <tr><td>Input 11</td><td>0x000B</td><td>0</td><td>Output 11</td><td>0x040B</td><td>0</td><td>Send</td></tr> <tr><td>Input 12</td><td>0x000C</td><td>0</td><td>Output 12</td><td>0x040C</td><td>0</td><td>Send</td></tr> <tr><td>Input 13</td><td>0x000D</td><td>0</td><td>Output 13</td><td>0x040D</td><td>0</td><td>Send</td></tr> <tr><td>Input 14</td><td>0x000E</td><td>0</td><td>Output 14</td><td>0x040E</td><td>0</td><td>Send</td></tr> <tr><td>Input 15</td><td>0x000F</td><td>0</td><td>Output 15</td><td>0x040F</td><td>0</td><td>Send</td></tr> <tr><td>Input 16</td><td>0x0010</td><td>0</td><td>Output 16</td><td>0x0410</td><td>0</td><td>Send</td></tr> </tbody> </table>	Address	Value				Input 1	0x0001	0	Output 1	0x0401	0	Send	Input 2	0x0002	0	Output 2	0x0402	0	Send	Input 3	0x0003	0	Output 3	0x0403	0	Send	Input 4	0x0004	0	Output 4	0x0404	0	Send	Input 5	0x0005	0	Output 5	0x0405	0	Send	Input 6	0x0006	0	Output 6	0x0406	0	Send	Input 7	0x0007	0	Output 7	0x0407	0	Send	Input 8	0x0008	0	Output 8	0x0408	0	Send	Input 9	0x0009	0	Output 9	0x0409	0	Send	Input 10	0x000A	0	Output 10	0x040A	0	Send	Input 11	0x000B	0	Output 11	0x040B	0	Send	Input 12	0x000C	0	Output 12	0x040C	0	Send	Input 13	0x000D	0	Output 13	0x040D	0	Send	Input 14	0x000E	0	Output 14	0x040E	0	Send	Input 15	0x000F	0	Output 15	0x040F	0	Send	Input 16	0x0010	0	Output 16	0x0410	0	Send
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Input 15	0x000F	0	Output 15	0x040F	0	Send																																																																																																																	
Input 16	0x0010	0	Output 16	0x0410	0	Send																																																																																																																	

Punto	Descrizione	Immagine															
5	<p>Premere Change Configuration (Modifica configurazione) per impostare l'indirizzo IP.</p>	 <p>The screenshot shows the 'KUNBUS-GW EtherNet/IP™' web interface. At the top right is a 'Log Out' link and the KUI logo. Below are sections for 'Modbus TCP Input and Output' and 'Modbus Register' with 'Show' buttons. The 'Configuration' section lists: Serial number (994), Software Version (1.1.0454), MAC Address (c8:3e:27:0b:2b:10), IP Address (192.168.1.8), Subnet mask (255.255.255.0), Gateway (192.168.1.1), and DHCP (active). A red arrow points to the 'Change Configuration' button. Other buttons include 'Change Password' and 'Reboot'. A 'Download FDS file' link is at the bottom left.</p>															
6	<p>Modificare l'indirizzo IP in base all'indirizzo gateway. Premere Apply (Applica) per confermare. Impostare tutti i DIP switch su OFF. Spegnerne il gateway, quindi riavviarlo. Viene ora utilizzato il nuovo indirizzo IP.</p>	 <p>The screenshot shows the 'Change Configuration' dialog box. It has a table with 'Old Value' and 'New Value' columns. The 'DHCP' row shows 'active' for both. The 'IP Address' row shows '192.168.1.8' for both. The 'Network Mask' row shows '255.255.255.0' for both. The 'Apply' button is circled in red. There is also an 'Abort' button.</p> <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td>active</td> <td>active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td></td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table>		Old Value	New Value	DHCP	active	active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0		192.168.1.1	192.168.1.1
	Old Value	New Value															
DHCP	active	active															
IP Address	192.168.1.8	192.168.1.8															
Network Mask	255.255.255.0	255.255.255.0															
	192.168.1.1	192.168.1.1															

Sezione 8 Configurazione del gateway Profinet

Punto	Descrizione	Immagine
1	<ul style="list-style-type: none">• Collegare il gateway Profinet al PC con l'adattatore LAN-LAN.• Fare riferimento a Introduzione a pagina 93. Utilizzare il collegamento dello slave GATEWAY Profinet IRT. Seguire le istruzioni riportate nel manuale per l'utente fornito dal produttore, <i>Componente Gateway per PROFINET</i>.• Utilizzare il software PRONETA per impostare il nome su kunbus-gw-profinet.• Immettere l'indirizzo IP utilizzato.	
2	<p>Aprire il browser e immettere l'indirizzo IP. Dati di accesso per il primo accesso: Nome utente: Admin Password: 1701 Premere Login (Accedi).</p>	

Punto	Descrizione	Immagine																
3	Premere Show (Mostra) (A) per visualizzare i dati immessi.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table border="0"> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
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4	<p>Mostra tutti i dati inviati dal controller al gateway Profinet.</p> <p>Il controller e il gateway Profinet trasferiscono l'area dati 0000 - 01BF, che è un intervallo di 448 byte o 112 float o 224 integer o un insieme di essi, in base al tipo di telegramma del Modbus TCP nel controller.</p>	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input (from neighbour device)</p> <p>Main page</p> <table border="1"> <thead> <tr> <th>Address</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Sezione 9 Risoluzione dei problemi

9.1 Risoluzione dei problemi per RevPi

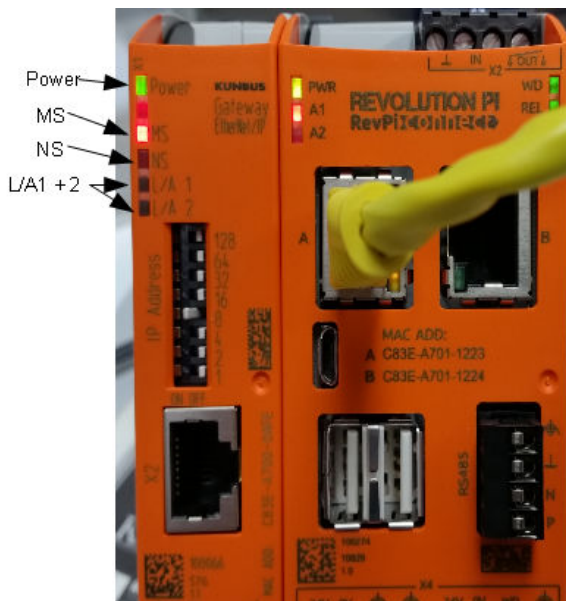
Figura 4 Modulo di base RevPi



Messaggio	Descrizione	Soluzione
Il LED A2 lampeggia in rosso.	La comunicazione è stata interrotta.	<ul style="list-style-type: none">• Collegare il cavo di rete (cavo o router).• Impostare l'indirizzo Modbus in Claros su 1.• Impostare il Modbus TCP nel menu Claros su on.
Il LED A3 lampeggia lentamente in rosso.	La configurazione del gateway Profinet ed Ethernet/IP è mista.	Fare riferimento a Avvio della configurazione della chiavetta USB a pagina 95, punto 4, e selezionare il tipo di gateway corretto: <ul style="list-style-type: none">• en: Ethernet/IP• pn: Profinet

9.2 Risoluzione dei problemi per Ethernet/IP

Figura 5 Gateway Ethernet/IP

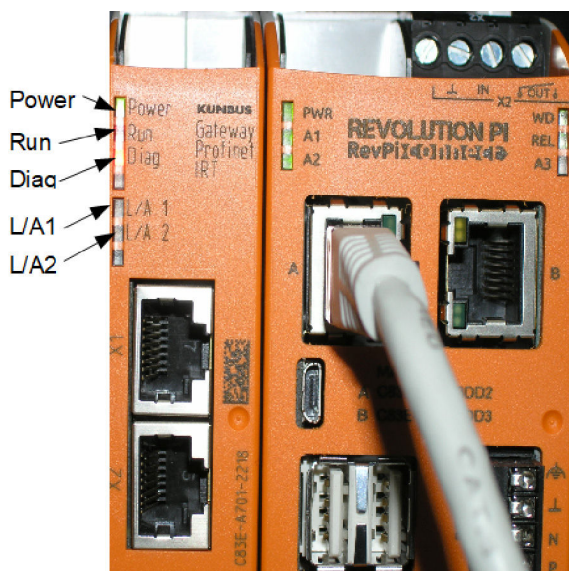


Messaggio	Descrizione	Soluzione
Il LED di alimentazione è spento.	Il gateway Ethernet/IP è disattivato.	Attivare l'alimentazione.
Il LED di alimentazione lampeggia in verde.	La procedura di avvio non è completa.	Attendere qualche minuto.
Il LED di alimentazione lampeggia in rosso.	Indica un'avvertenza.	Verificare che tutti i dispositivi siano collegati.
Il LED di alimentazione è rosso.	Indica un errore.	Il gateway Ethernet/IP è difettoso. Sostituire il gateway Ethernet/IP.
Il LED MS è spento.	Il gateway Ethernet/IP è disattivato.	Attivare l'alimentazione.
Il LED MS lampeggia in verde.	La procedura di configurazione non è completa.	Attendere qualche minuto.
Il LED MS lampeggia in rosso.	Indica un errore di configurazione.	Fare riferimento a Configurazione del gateway Ethernet/IP a pagina 105 per verificare la configurazione.
Il LED MS è rosso.	Indica un errore.	Il gateway Ethernet/IP è difettoso. Sostituire il gateway Ethernet/IP.
Il LED MS lampeggia in rosso e verde.	Il test automatico non è completo.	Attendere qualche minuto.

Messaggio	Descrizione	Soluzione
Il LED NS è spento.	Il gateway Ethernet/IP è disattivato o non dispone di indirizzo IP.	Attivare l'alimentazione. Impostare l'indirizzo IP.
Il LED NS lampeggia in verde.	L'indirizzo IP è impostato ma la connessione CIP non è stabilita.	Attendere qualche minuto.
Il LED NS lampeggia in rosso.	La connessione CIP è stata interrotta.	Verificare se è presente un timeout.
Il LED NS è rosso.	L'indirizzo IP selezionato è utilizzato da un altro dispositivo.	Modificare l'indirizzo IP con uno univoco.
Il LED L/A 1 o 2 è spento.	Nessun collegamento ad altri dispositivi.	Eseguire il collegamento a un dispositivo.
Il LED L/A 1 o 2 lampeggia in verde.	Nessuno scambio di dati.	Attendere lo scambio di dati successivo.

9.3 Risoluzione dei problemi per Profinet

Figura 6 Gateway PROFINET



Messaggio	Descrizione	Soluzione
Il LED di alimentazione è spento.	Il gateway Profinet è spento.	Attivare l'alimentazione.
Il LED di alimentazione lampeggia in verde.	La procedura di avvio non è stata completata.	Attendere qualche minuto.
Il LED di alimentazione lampeggia in rosso.	Indica un'avvertenza.	Verificare che tutti i dispositivi siano installati.

Messaggio	Descrizione	Soluzione
Il LED di alimentazione è rosso.	Indica un errore.	Il gateway Profinet è difettoso. Sostituire il gateway Profinet.
Il LED di funzionamento è spento.	Nessuna connessione a una rete.	Eeguire la connessione alla rete.
Il LED di funzionamento lampeggia in verde.	Il controller Profinet è collegato ma non avviene lo scambio di dati.	Attendere lo scambio di dati successivo.
Il LED di funzionamento lampeggia lentamente in verde.	Stato attivato dallo strumento per l'identificazione del componente gateway.	Attendere qualche minuto.
Il LED di diagnostica lampeggia in rosso.	Stato attivato dallo strumento per l'identificazione del componente gateway.	Attendere qualche minuto.
Il LED di diagnostica lampeggia velocemente in rosso.	Nessuna connessione al controller. Nessun nome Profinet impostato nel modulo.	Fare riferimento a Configurazione del gateway Profinet a pagina 108 per impostare il nome.
Il LED di diagnostica è rosso.	Un dispositivo gateway riporta i dati di diagnosi.	Fare riferimento al report diagnostico.
Il LED L/A 1 o 2 è spento.	Nessuna connessione a una rete.	Eeguire la connessione alla rete.
Il LED L/A 1 o 2 lampeggia in verde.	Scambio di dati.	Attendere il completamento dello scambio di dati.

Índice

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| 2 | Introdução na página 115 | 7 | Configurar o gateway Ethernet/IP na página 128 |
| 3 | Iniciar a configuração USB na página 117 | 8 | Configurar o gateway Profinet na página 131 |
| 4 | Exemplos de instalação na página 119 | 9 | Resolução de problemas na página 134 |
| 5 | Configuração do telegrama Modbus TCP do controlador SC4200c na página 122 | | |

Secção 1 Utilização prevista

Estas instruções de configuração destinam-se a serem utilizadas por pessoas que integrem o gateway Ethernet/IP externo ou o gateway Profinet como componentes de hardware na rede Claros.

Secção 2 Introdução

O fabricante não é responsável por quaisquer danos resultantes da aplicação incorreta ou utilização indevida deste produto, incluindo, entre outros, danos diretos, incidentais e consequenciais, não se responsabilizando por tais danos ao abrigo da lei aplicável. O utilizador é o único responsável pela identificação de riscos de aplicação críticos e pela instalação de mecanismos adequados para a proteção dos processos na eventualidade de uma avaria do equipamento.

⚠ PERIGO	
	Perigo de electrocussão. Desligue sempre o equipamento antes de efectuar quaisquer ligações eléctricas.

Itens a preparar:

- Unidade USB formatada como FAT32
- PC com Windows¹ 10
- Módulo:
 - Para implementação de Ethernet/IP:
 - LXZ446.999.00001: Módulo básico GATEWAY RevPi IloT
 - LXZ446.99.00002: GATEWAY Ethernet/IP Slave
 - LXZ446.999.00003: jumper para PiBridge
 - Para implementação Profinet:
 - LXZ446.999.00001: Módulo básico GATEWAY RevPi IloT
 - LXZ446.999.00007: GATEWAY Profinet IRT Slave
 - LXZ446.999.00003: jumper para PiBridge

Ligue os três módulos RevPi, Slave e PiBridge à alimentação e à LAN.

Consulte as ligações na tabela que se segue para obter mais informações sobre o fabricante dos módulos.

Módulo	Ligação
GATEWAY Profinet IRT Slave	https://www.kunbus.com/profinet-irt-gateway-module.html
GATEWAY Ethernet/IP Slave	https://www.kunbus.com/ethernet-ip-gateway-module.html

¹ Microsoft® Windows® é uma marca comercial registada da Microsoft Corporation nos E.U.A. e noutros países.

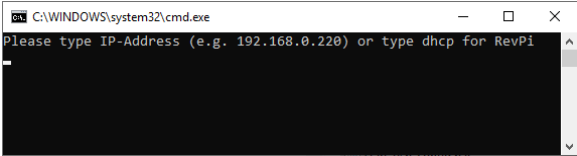
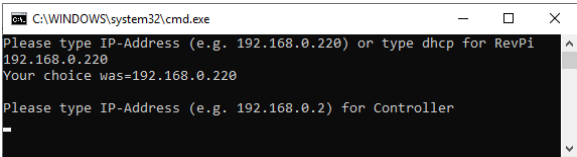
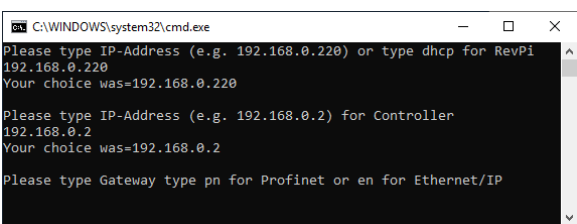
Módulo	Ligação
Módulo básico RevPi GATEWAY IIoT	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
Como ligar módulos RevPi	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Como instalar módulos RevPi numa calha DIN	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Como ligar a fonte de alimentação	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

Preparar a unidade USB

1. Introduza uma unidade USB vazia no PC.
2. Acesse a <https://www.hach.com> e procure as palavras-chave "usb ethernet/IP installation" (Instalação usb ethernet/IP) ou "usb profinet installation" (Instalação usb profinet).
3. Transfira USB_ETHIP_PRNET.zip.
4. Descomprima o ficheiro para o diretório raiz da unidade USB.

Secção 3 Iniciar a configuração USB

Introduza a unidade USB preparada no PC.

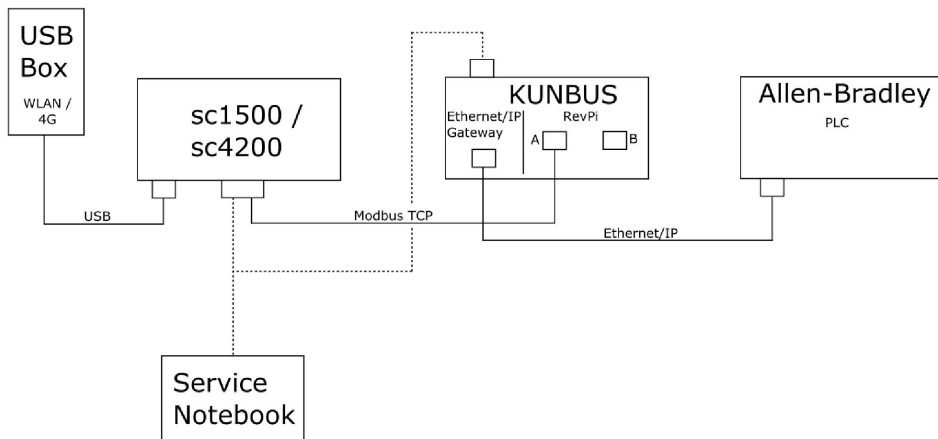
Passo	Descrição	Imagem
1	Inicie start_usb_config.bat. Abre-se uma janela de terminal. Siga o guia passo a passo.	
2	Introduza o endereço IP do módulo RevPi.	 <pre>C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi 192.168.0.220</pre>
3	Introduza o endereço IP do controlador SC. Certifique-se de que o prefixo de rede é igual ao do módulo RevPi (por exemplo, 192.168.0). Certifique-se de que o identificador do anfitrião é diferente do módulo RevPi (por exemplo, 220 RevPi, 2 Controller).	 <pre>C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi 192.168.0.220 Your choice was=192.168.0.220 Please type IP-Address (e.g. 192.168.0.2) for Controller 192.168.0.2</pre>
4	Introduza o tipo de gateway: <ul style="list-style-type: none">• pn - Profinet• en - Ethernet/IP	 <pre>C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi 192.168.0.220 Your choice was=192.168.0.220 Please type IP-Address (e.g. 192.168.0.2) for Controller 192.168.0.2 Your choice was=192.168.0.2 Please type Gateway type pn for Profinet or en for Ethernet/IP</pre>

Passo	Descrição	Imagem
5	<p>Confirme as definições com Enter. Retire a unidade USB.</p>	
6	<p>Introduza a unidade USB na tomada USB esquerda do módulo RevPi.</p>	
7	<p>Descrição do LED:</p> <ul style="list-style-type: none"> • A1/A2 laranja: início da instalação do RevPi. • A1 vermelho, A2 desligado: inserir unidade USB no RevPi. • A1 verde, A2 desligado: unidade USB inserida com êxito. • A1 desligado, A2 verde: O RevPi transfere/carrega dados a partir da unidade USB. • A3 vermelho: reinício do RevPi. <p>Quando A3 estiver vermelho, retire a unidade USB.</p>	
8	<p>As definições do RevPi estão concluídas.</p>	

Secção 4 Exemplos de instalação

Figura 1 mostra uma instalação com duas ligações LAN diferentes.

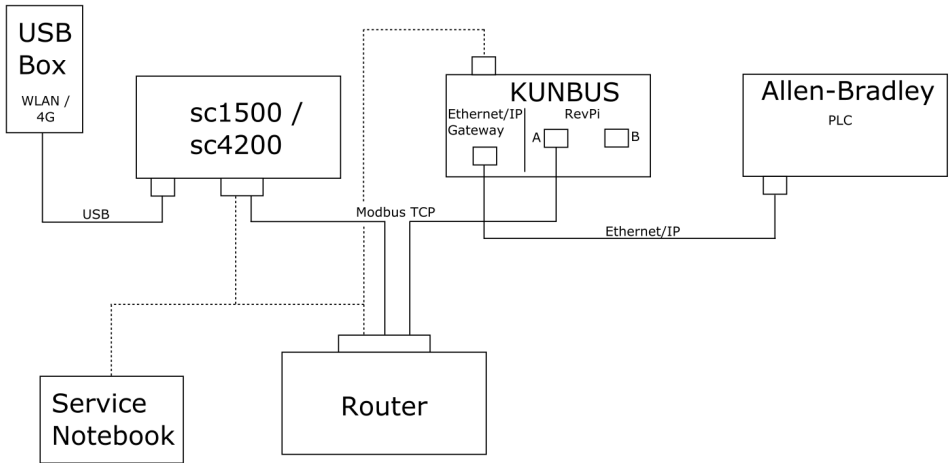
Figura 1 Exemplo 1



- Modbus TCP e Ethernet/IP utilizam duas ligações LAN diferentes.
- Todos os dispositivos têm um endereço IP estático.
- O controlador tem acesso à Internet através de ligação Wi-Fi ou rede móvel.
- Para configurar os endereços IP do controlador e do gateway Ethernet/IP, é necessário um computador portátil.

Figura 2 mostra uma instalação com um router para a ligação Modbus TCP.

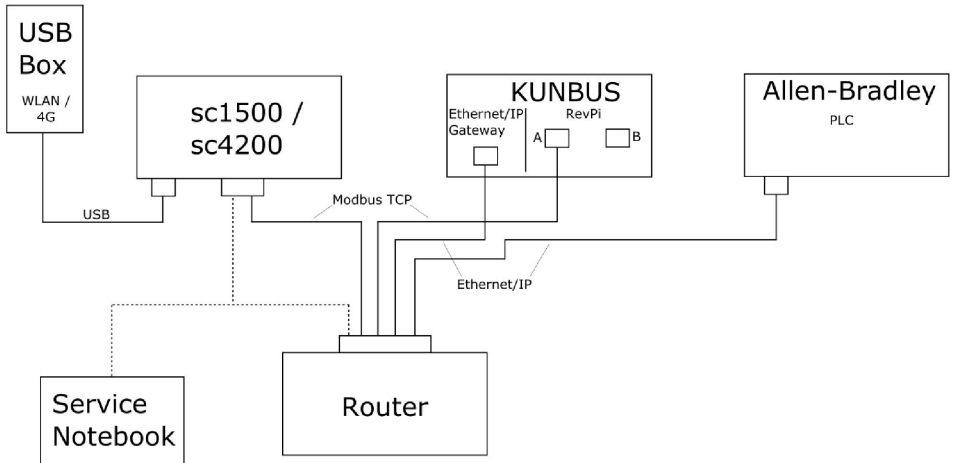
Figura 2 Exemplo 2



- O Modbus TCP está ligado a um router.
- Todos os dispositivos têm um endereço IP estático ou o router define o endereço IP através de DHCP.
Nota: Certifique-se de que o router utiliza sempre o mesmo endereço IP para os mesmos dispositivos (MAC) se for utilizado DHCP.
- O controlador tem acesso à Internet através de ligação Wi-Fi ou rede móvel.
- Para configurar o endereço IP do controlador, o gateway Ethernet/IP e as definições do router, é necessário um computador portátil.

Figura 3 mostra uma instalação com um router ou um computador para todos os dispositivos.

Figura 3 Exemplo 3



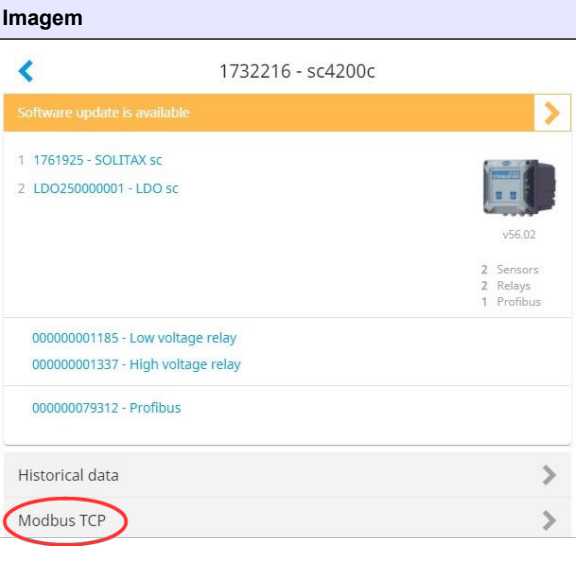
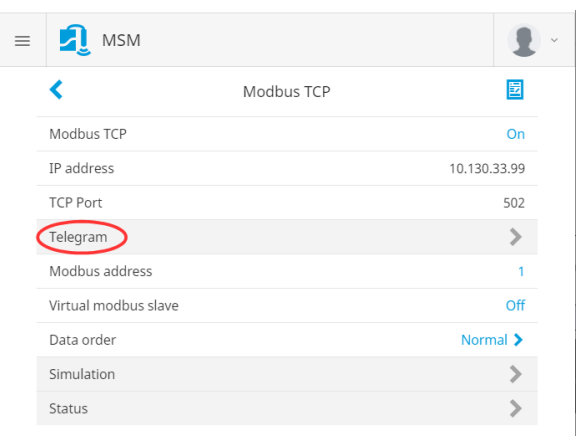
- Todos os dispositivos estão ligados com um router ou um computador.
- Todos os dispositivos têm um endereço IP estático ou o router ou computador define o endereço IP através de DHCP.

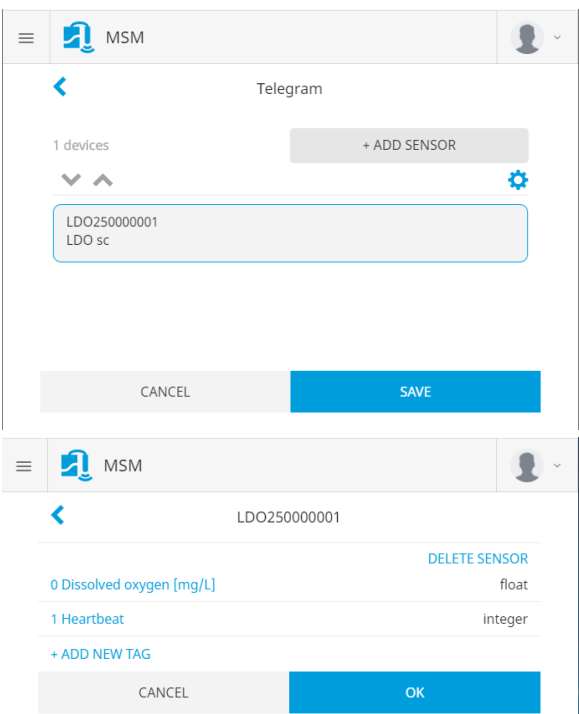
Nota: Certifique-se de que o router utiliza sempre o mesmo endereço IP para os mesmos dispositivos (MAC) se for utilizado DHCP.

- O controlador tem acesso à Internet através de ligação Wi-Fi ou rede móvel.
- Para configurar o endereço IP do controlador e as definições do router, é necessário um computador portátil.

Secção 5 Configuração do telegrama Modbus TCP do controlador SC4200c

Inicie a aplicação Claros e siga o guia passo a passo.

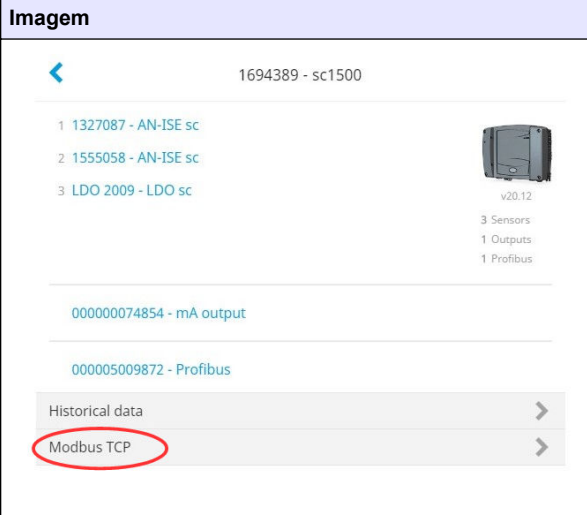
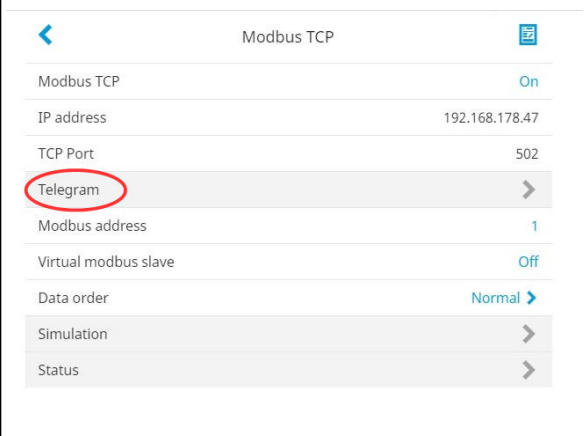
Passo	Descrição	Imagem
1	Selecione o menu do controlador e, em seguida, prima Modbus TCP .	 <p>The screenshot shows the main menu of the SC4200c control panel. At the top, it displays '1732216 - sc4200c'. Below this, there is a yellow notification bar that says 'Software update is available'. A list of items is shown: '1 1761925 - SOLITAX sc', '2 LDO250000001 - LDO sc', '00000001185 - Low voltage relay', '00000001337 - High voltage relay', and '00000079312 - Profibus'. At the bottom, there are two menu items: 'Historical data' and 'Modbus TCP', both with right-pointing arrows. The 'Modbus TCP' item is circled in red.</p>
2	Selecione Telegram (Telegrama) para definir o telegrama Modbus TCP.	 <p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, it says 'Modbus TCP' with a blue 'On' status. Below this, there are several configuration items: 'IP address' (10.130.33.99), 'TCP Port' (502), 'Telegram' (highlighted with a red circle), 'Modbus address' (1), 'Virtual modbus slave' (Off), and 'Data order' (Normal). At the bottom, there are two more menu items: 'Simulation' and 'Status', both with right-pointing arrows.</p>

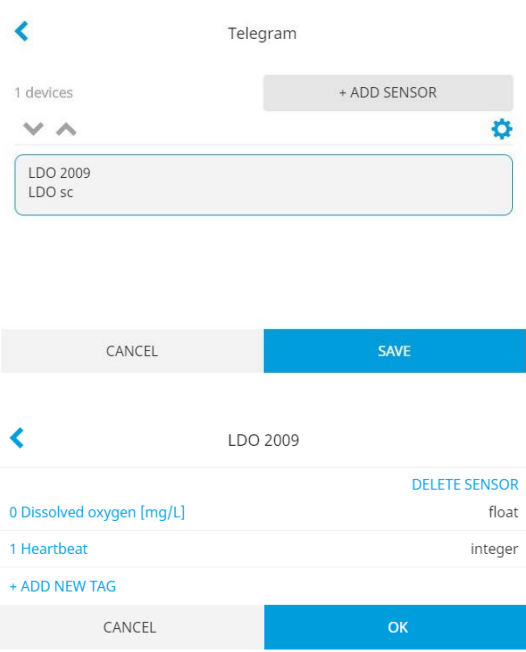
Passo	Descrição	Imagem
3	<p>O telegrama apresentado é um exemplo do sensor LDO sc.</p> <p>Defina o Heartbeat para inteiro. O Heartbeat é um contador que mostra a atualização do valor em incrementos de um segundo.</p> <p>Nota: O conteúdo do telegrama Modbus TCP é igual ao telegrama Profibus.</p>	 <p>The image contains two screenshots from the MSM (Modbus Slave Manager) interface. The top screenshot shows the 'Telegram' configuration screen. It features a header with the MSM logo and a user profile icon. Below the header, there is a back arrow, the title 'Telegram', and a section for '1 devices'. A '+ ADD SENSOR' button is visible. A list of devices is shown with 'LDO250000001' and 'LDO sc'. At the bottom, there are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the configuration for the 'LDO250000001' sensor. It has a header with the MSM logo and a user profile icon. Below the header, there is a back arrow, the title 'LDO250000001', and a 'DELETE SENSOR' link. The configuration list shows '0 Dissolved oxygen [mg/L]' with a 'float' data type and '1 Heartbeat' with an 'integer' data type. There is a '+ ADD NEW TAG' link at the bottom. At the bottom of the screen, there are 'CANCEL' and 'OK' buttons.</p>

Passo	Descrição	Imagem
4	<p>O menu Modbus TCP apresenta o endereço IP do controlador. 10.130.33.99 é o endereço IP definido no menu de serviço do controlador.</p> <p>Defina Modbus TCP como On (Ligado) e, em seguida, prima Status (Estado).</p>	<p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a header with a menu icon, the 'MSM' logo, and a user profile icon. Below the header, the title 'Modbus TCP' is displayed. The configuration items are as follows:</p> <ul style="list-style-type: none"> Modbus TCP: On (circled in red) IP address: 10.130.33.99 (circled in red) TCP Port: 502 Telegram: > Modbus address: 1 Virtual modbus slave: Off Data order: Normal > Simulation: > Status: > (circled in red)
5	<p>O menu Status (Estado) apresenta as estatísticas Modbus TCP. 10.130.33.50 é o endereço IP do módulo RevPi. O RevPi tem 5 Modbus TCP master.</p>	<p>The screenshot shows the 'Status' screen with statistics for three clients. Each client's data is as follows:</p> <ul style="list-style-type: none"> Client 10.130.33.50:46338: <ul style="list-style-type: none"> RX Bytes: 792 TX Bytes: 4818 Accepted requests: 66 Rejected Requests: 0 Last exception: 0 Client 10.130.33.50:46340: <ul style="list-style-type: none"> RX Bytes: 792 TX Bytes: 4818 Accepted requests: 66 Rejected Requests: 0 Last exception: 0 Client 10.130.33.50:46342: <ul style="list-style-type: none"> RX Bytes: 792 TX Bytes: 4818 Accepted requests: 66 Rejected Requests: 0 Last exception: 0

Secção 6 Configuração do telegrama Modbus TCP do controlador SC1500

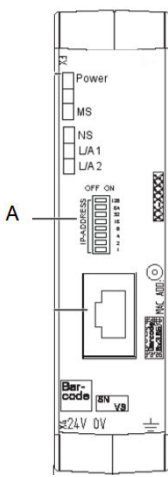
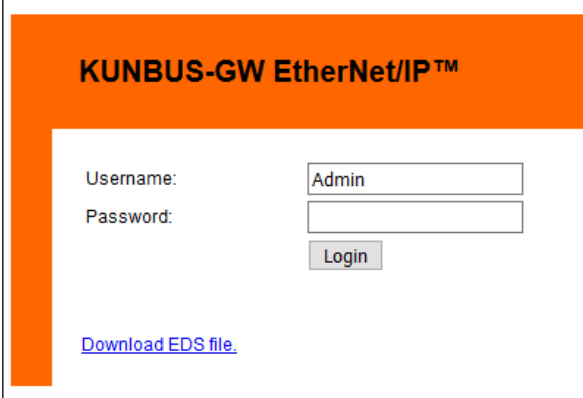
Inicie a aplicação Claros e siga o guia passo a passo.

Passo	Descrição	Imagem
1	Selecione o menu do controlador e, em seguida, prima Modbus TCP .	
2	Selecione Telegram (Telegrama) para definir o telegrama Modbus TCP.	

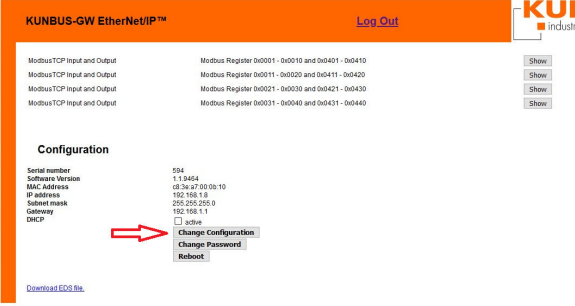
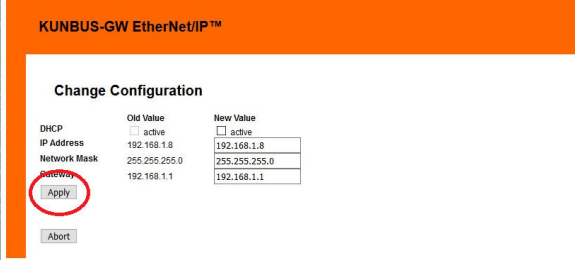
Passo	Descrição	Imagem
3	<p>O telegrama apresentado é um exemplo do sensor LDO sc. Defina o Heartbeat para inteiro. O Heartbeat é um contador que mostra a atualização do valor em incrementos de um segundo.</p> <p><i>Nota: O conteúdo do telegrama Modbus TCP é igual ao telegrama Profibus.</i></p>	 <p>The image displays two screenshots from a configuration application. The top screenshot is titled 'Telegram' and shows a list of '1 devices'. A '+ ADD SENSOR' button is visible. A list item shows 'LDO 2009' and 'LDO sc'. Below the list are 'CANCEL' and 'SAVE' buttons. The bottom screenshot is titled 'LDO 2009' and shows configuration details: '0 Dissolved oxygen [mg/L]' with a 'float' unit, and '1 Heartbeat' with an 'integer' unit. A 'DELETE SENSOR' link is present. At the bottom, there are 'CANCEL' and 'OK' buttons.</p>

Passo	Descrição	Imagem
4	<p>O menu Modbus TCP apresenta o endereço IP do controlador. 192.168.178.47 é o endereço IP definido no menu de serviço do controlador.</p> <p>Defina Modbus TCP como On (Ligado) e, em seguida, prima Status (Estado).</p>	<p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a back arrow, the title 'Modbus TCP', and a help icon. Below are several settings: 'Modbus TCP' is turned 'On'; 'IP address' is '192.168.178.47'; 'TCP Port' is '502'; 'Telegram' has a right arrow; 'Modbus address' is '1'; 'Virtual modbus slave' is 'Off'; 'Data order' is 'Normal'; 'Simulation' has a right arrow; and 'Status' has a right arrow and is circled in red.</p>
5	<p>O menu Status (Estado) apresenta as estatísticas Modbus TCP. 192.168.178.50 é o endereço IP do módulo RevPi. O RevPi tem 7 Modbus TCP master.</p>	<p>The screenshot shows the 'Status' screen with three sections of statistics for different clients. Each section includes: Client IP, RX Bytes, TX Bytes, Accepted requests, Rejected Requests, and Last exception. The first client (192.168.178.50:46338) has 792 RX Bytes, 4818 TX Bytes, 66 Accepted requests, 0 Rejected Requests, and 0 Last exception. The second client (192.168.178.50:46340) has identical statistics. The third client (192.168.178.50:46342) also has identical statistics.</p>

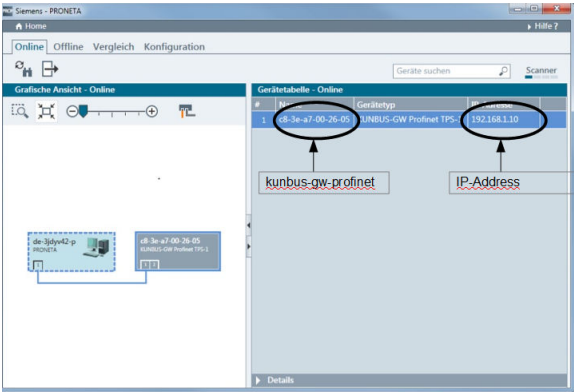
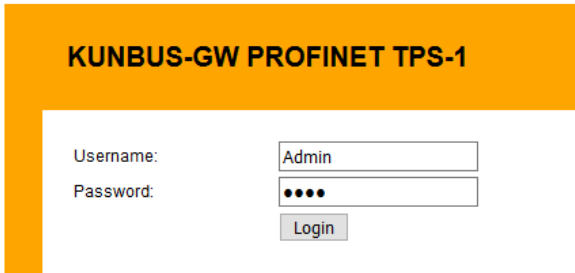
Secção 7 Configurar o gateway Ethernet/IP

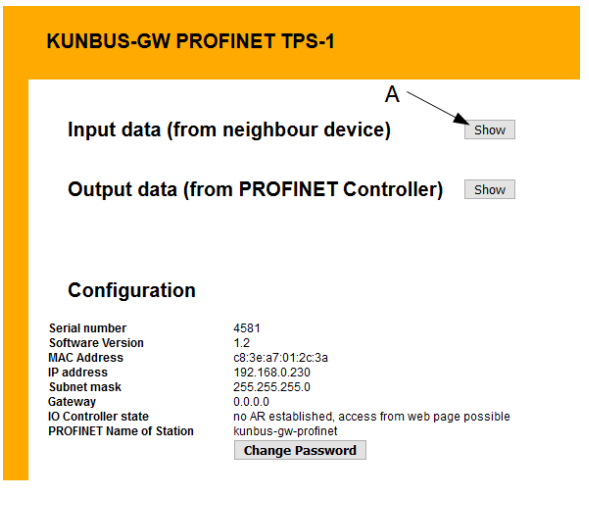
Passo	Descrição	Imagem
1	<ul style="list-style-type: none">Ligue o gateway Ethernet/IP ao PC com o cabo adaptador LAN para USB.Consulte Introdução na página 115. Utilize a ligação do GATEWAY Ethernet/IP Slave. Siga as instruções no manual do utilizador do fabricante <i>Componente do gateway para Ethernet/IP</i>.Utilize o comutador de endereço de 8 pinos (A) para definir o identificador do anfitrião para o formato binário do gateway.<ul style="list-style-type: none">Exemplo: defina o anfitrião como 8:00010000Abra o website http://192.168.1.X (X = soma de todos os comutadores definidos para ON ([Ligado])).	 <p>O diagrama mostra o painel traseiro do gateway Ethernet/IP. No topo, há uma tomada de energia (Power) e dois botões (MS e NS). Abaixo, há duas portas LAN (LIA 1 e LIA 2). O comutador de endereço de 8 pinos (A) está destacado com uma linha vermelha e o rótulo 'A'. O comutador tem 8 pinos, cada um com um botão rotulado 'OFF' e 'ON'. Abaixo do comutador, há um botão de reset (RST) e um botão de energia (ON/OFF). No canto inferior direito, há um código de barras (Bar-Code) e um código de identificação (BN VA). Na base, há uma conexão de alimentação de 24V DV.</p>
2	<p>Abra o browser e introduza o endereço IP 192.168.1.X. Dados de início de sessão para o primeiro início de sessão:</p> <p>Utilizador: Admin Palavra-passe: 1701 Prima Login (Iniciar sessão).</p>	 <p>A imagem mostra a tela de login do gateway Ethernet/IP. O título da tela é "KUNBUS-GW EtherNet/IP™". Abaixo do título, há dois campos de entrada: "Username:" com o valor "Admin" e "Password:". Abaixo dos campos, há um botão "Login". No canto inferior esquerdo, há um link "Download EDS file."</p>

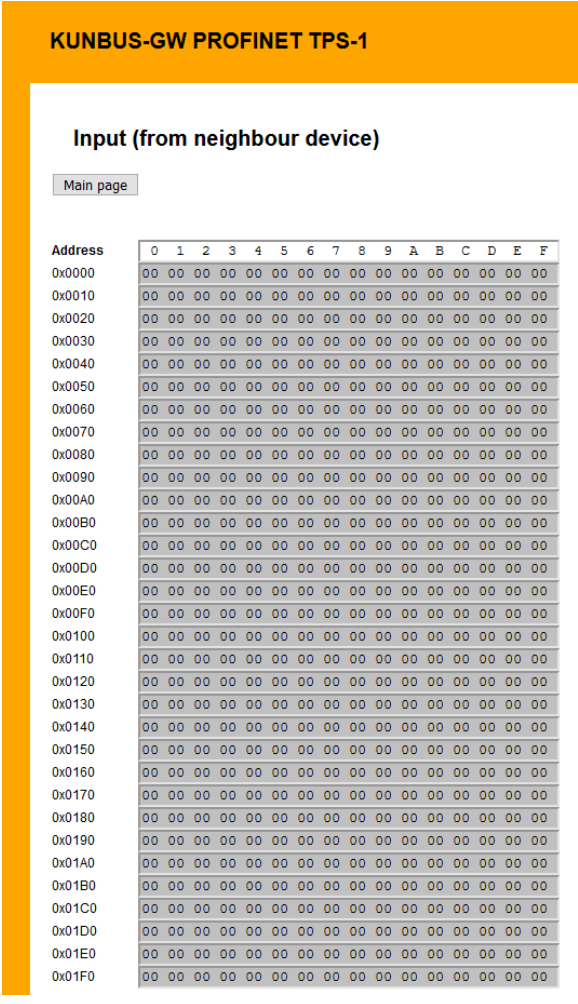
Passo	Descrição	Imagem																																																																																																																					
3	<p>O controlador e o gateway Ethernet/IP transferem a área de dados 0000-01BF, que é um intervalo de 448 bytes ou 112 flutuantes ou 224 inteiros, ou uma combinação deles, com base no tipo de telegrama do Modbus TCP no controlador.</p> <p><i>Nota: É apresentado apenas o primeiro intervalo de dados até 32 inteiros. Veja todos os dados no PLC (224 inteiros).</i></p> <p>Prima Show (Mostrar).</p>	<p>The screenshot shows the 'Modbus Register' section with two rows of registers (0x0001-0x0010 and 0x0401-0x0410) and their corresponding Modbus Register ranges. Below this is the 'Configuration' section with fields for Serial number, Software Version, MAC Address, IP Address, Subnet mask, Gateway, and a checkbox for 'active'. There are also buttons for 'Change Configuration', 'Change Password', and 'Reboot'.</p>																																																																																																																					
4	<p>É apresentada a área de dados selecionada.</p>	<p>The screenshot shows the 'ModbusTCP Input and Output' page with a table of data. The table has columns for Address and Value, and is organized into two main sections: Input and Output. Each row includes a 'Send' button.</p> <table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Input 1</td> <td>0x0001</td> <td>0</td> <td>Output 1</td> <td>0x0401</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 2</td> <td>0x0002</td> <td>0</td> <td>Output 2</td> <td>0x0402</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 3</td> <td>0x0003</td> <td>0</td> <td>Output 3</td> <td>0x0403</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 4</td> <td>0x0004</td> <td>0</td> <td>Output 4</td> <td>0x0404</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 5</td> <td>0x0005</td> <td>0</td> <td>Output 5</td> <td>0x0405</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 6</td> <td>0x0006</td> <td>0</td> <td>Output 6</td> <td>0x0406</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 7</td> <td>0x0007</td> <td>0</td> <td>Output 7</td> <td>0x0407</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 8</td> <td>0x0008</td> <td>0</td> <td>Output 8</td> <td>0x0408</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 9</td> <td>0x0009</td> <td>0</td> <td>Output 9</td> <td>0x0409</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 10</td> <td>0x000a</td> <td>0</td> <td>Output 10</td> <td>0x040a</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 11</td> <td>0x000b</td> <td>0</td> <td>Output 11</td> <td>0x040b</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 12</td> <td>0x000c</td> <td>0</td> <td>Output 12</td> <td>0x040c</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 13</td> <td>0x000d</td> <td>0</td> <td>Output 13</td> <td>0x040d</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 14</td> <td>0x000e</td> <td>0</td> <td>Output 14</td> <td>0x040e</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 15</td> <td>0x000f</td> <td>0</td> <td>Output 15</td> <td>0x040f</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 16</td> <td>0x0010</td> <td>0</td> <td>Output 16</td> <td>0x0410</td> <td>0</td> <td>Send</td> </tr> </tbody> </table>	Address	Value				Input 1	0x0001	0	Output 1	0x0401	0	Send	Input 2	0x0002	0	Output 2	0x0402	0	Send	Input 3	0x0003	0	Output 3	0x0403	0	Send	Input 4	0x0004	0	Output 4	0x0404	0	Send	Input 5	0x0005	0	Output 5	0x0405	0	Send	Input 6	0x0006	0	Output 6	0x0406	0	Send	Input 7	0x0007	0	Output 7	0x0407	0	Send	Input 8	0x0008	0	Output 8	0x0408	0	Send	Input 9	0x0009	0	Output 9	0x0409	0	Send	Input 10	0x000a	0	Output 10	0x040a	0	Send	Input 11	0x000b	0	Output 11	0x040b	0	Send	Input 12	0x000c	0	Output 12	0x040c	0	Send	Input 13	0x000d	0	Output 13	0x040d	0	Send	Input 14	0x000e	0	Output 14	0x040e	0	Send	Input 15	0x000f	0	Output 15	0x040f	0	Send	Input 16	0x0010	0	Output 16	0x0410	0	Send
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Passo	Descrição	Imagem															
5	<p>Prima Change Configuration (Alterar configuração) para definir o endereço IP.</p>	 <p>The screenshot shows the 'Configuration' page of the KUNBUS-GW EtherNet/IP™ device. It lists Modbus Register information and configuration parameters. A red arrow points to the 'Change Configuration' button, which is highlighted in a grey box. Other buttons include 'Change Password' and 'Reboot'.</p>															
6	<p>Altere o endereço IP de acordo com o endereço do gateway.</p> <p>Prima Apply (Aplicar) para confirmar.</p> <p>Desligue todos os computadores DIP.</p> <p>Desligue a alimentação do gateway e, em seguida, reinicie. O novo endereço IP é agora utilizado.</p>	 <p>The screenshot shows the 'Change Configuration' dialog box. It contains a table with 'Old Value' and 'New Value' columns. The 'Apply' button is circled in red. The table shows the following values:</p> <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td><input checked="" type="checkbox"/> active</td> <td><input type="checkbox"/> active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table>		Old Value	New Value	DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0	Gateway	192.168.1.1	192.168.1.1
	Old Value	New Value															
DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active															
IP Address	192.168.1.8	192.168.1.8															
Network Mask	255.255.255.0	255.255.255.0															
Gateway	192.168.1.1	192.168.1.1															

Secção 8 Configurar o gateway Profinet

Passo	Descrição	Imagem
1	<ul style="list-style-type: none"> Ligue o gateway Profinet ao PC com o adaptador LAN para LAN. Consulte Introdução na página 115. Utilize a ligação GATEWAY Profinet IRT Slave. Siga as instruções no manual do utilizador do fabricante <i>Componente do gateway para PROFINET</i>. Utilize o software PRONETA para definir o nome como kunbus-gw-profinet. Introduza o endereço IP utilizado. 	 <p>The screenshot shows the Siemens PRONETA software interface. The main window displays a network diagram with two devices connected. The device on the right is identified as 'KUNBUS-GW Profinet TPS-1' with the IP address '192.168.3.10'. The device name is highlighted with a blue box and labeled 'kunbus-gw-profinet'. The IP address is also highlighted with a blue box and labeled 'IP-Address'. The interface includes a search bar, a 'Scanner' button, and a 'Geräteeinstellung' (Device Settings) window.</p>
2	<p>Abra o browser e introduza o endereço IP.</p> <p>Dados de início de sessão para o primeiro início de sessão:</p> <p>Utilizador: Admin Palavra-passe: 1701 Prima Login (Iniciar sessão).</p>	 <p>The screenshot shows the login page for the KUNBUS-GW PROFINET TPS-1 gateway. The page has a prominent orange header with the text 'KUNBUS-GW PROFINET TPS-1'. Below the header is a white login form with the following fields and buttons:</p> <ul style="list-style-type: none"> Username: <input type="text" value="Admin"/> Password: <input type="password" value="1701"/> Login: <input type="button" value="Login"/>

Passo	Descrição	Imagem																
3	Prima Show (Mostrar) (A) para apresentar os dados de entrada.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
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Passo	Descrição	Imagem																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
4	<p>Mostra todos os dados enviados do controlador para o gateway Profinet.</p> <p>O controlador e o gateway Profinet transferem a área de dados 0000 - 01BF, que é um intervalo de 448 bytes ou 112 flutuantes ou 224 inteiros, ou uma combinação deles, com base no tipo de telegrama do Modbus TCP no controlador.</p>	 <p>The screenshot shows the 'KUNBUS-GW PROFINET TPS-1' interface. At the top, it says 'Input (from neighbour device)'. Below that is a 'Main page' button. The main content is a table of memory addresses and their corresponding hex values. The addresses range from 0x0000 to 0x01F0 in increments of 0x0010. Each address is followed by a row of 16 hex values, one for each column labeled 0 through F. All values in the table are '00'.</p> <table border="1"> <thead> <tr> <th>Address</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0010</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0020</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0030</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0040</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0050</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0060</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0070</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0080</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0090</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x00A0</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Secção 9 Resolução de problemas

9.1 Resolução de problemas do RevPi

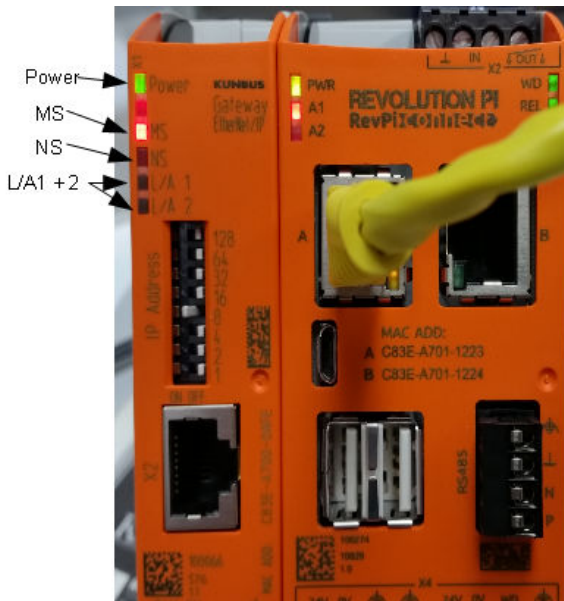
Figura 4 Módulo básico do RevPi



Mensagem	Descrição	Solução
O LED A2 pisca a vermelho.	A comunicação parou.	<ul style="list-style-type: none">• Ligue o cabo de rede (cabo ou router).• Especifique a definição de endereço Modbus no Claros como 1.• Defina o Modbus TCP no menu Claros como On (Ligado).
O LED A3 pisca lentamente a vermelho.	A configuração de Ethernet/IP e do gateway Profinet é mista.	Consulte Iniciar a configuração USB na página 117 no passo 4 e seleccione o tipo de gateway correto: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Resolução de problemas de Ethernet/IP

Figura 5 Gateway Ethernet/IP

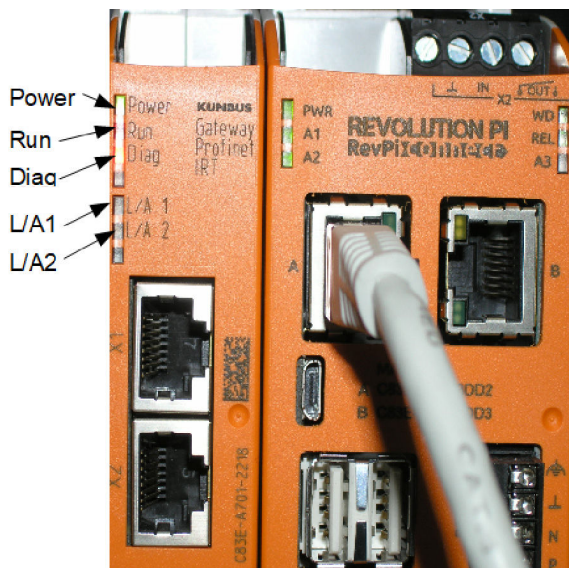


Mensagem	Descrição	Solução
O LED de alimentação está apagado.	O gateway Ethernet/IP está definido como Off (Desligado).	Ligar a alimentação.
O LED de alimentação pisca a verde.	O procedimento de arranque não está concluído.	Aguarde alguns minutos.
O LED de alimentação pisca a vermelho.	Apresenta um aviso.	Verifique se todos os dispositivos estão ligados.
O LED de alimentação está vermelho.	Apresenta um erro.	O gateway Ethernet/IP apresenta uma avaria. Substitua o gateway Ethernet/IP.
O LED MS está desligado.	O gateway Ethernet/IP está definido como Off (Desligado).	Ligue a alimentação.
O LED MS pisca a verde.	O procedimento de configuração não foi concluído.	Aguarde alguns minutos.
O LED MS pisca a vermelho.	Mostra um erro de configuração.	Consulte Configurar o gateway Ethernet/IP na página 128 para examinar a configuração.
O LED MS está vermelho.	Apresenta um erro.	O gateway Ethernet/IP apresenta uma avaria. Substitua o gateway Ethernet/IP.

Mensagem	Descrição	Solução
O LED MS pisca a vermelho e verde.	O teste automático não foi concluído.	Aguarde alguns minutos.
O LED NS está desligado.	O gateway Ethernet/IP está definido como Off (Desligado) ou não tem endereço IP.	Ligue a alimentação. Defina o endereço IP.
O LED NS pisca a verde.	O endereço IP está definido, mas a ligação CIP não foi estabelecida.	Aguarde alguns minutos.
O LED NS pisca a vermelho.	A ligação CIP foi interrompida.	Verifique se há um limite de tempo.
O LED NS está vermelho.	O endereço IP selecionado está a ser utilizado por outro dispositivo.	Altere o endereço IP para um endereço IP exclusivo.
O LED L/A 1 ou 2 está apagado.	Não existe ligação a outros dispositivos.	Ligue a um dispositivo.
O LED L/A 1 ou 2 pisca a verde.	Sem intercâmbio de dados.	Aguarde até ao próximo intercâmbio de dados.

9.3 Resolução de problemas do Profinet

Figura 6 Gateway Profinet



Mensagem	Descrição	Solução
O LED de alimentação está apagado.	O gateway Profinet está desligado.	Ligue a alimentação.
O LED de alimentação pisca a verde.	O procedimento de arranque não foi concluído.	Aguarde alguns minutos.

Mensagem	Descrição	Solução
O LED de alimentação pisca a vermelho.	Apresenta um aviso.	Verifique se todos os dispositivos estão instalados.
O LED de alimentação está vermelho.	Apresenta um erro.	O gateway Profinet apresenta uma avaria. Substitua o gateway Profinet.
O LED de funcionamento está apagado.	Sem ligação a uma rede.	Ligue à rede.
O LED de funcionamento pisca a verde.	O controlador Profinet está ligado, mas não há intercâmbio de dados.	Aguarde até ao próximo intercâmbio de dados.
O LED de funcionamento pisca lentamente a verde.	Acionado pela ferramenta de identificação do componente do gateway.	Aguarde alguns minutos.
O LED de diagnóstico pisca a vermelho.	Acionado pela ferramenta de identificação do componente do gateway.	Aguarde alguns minutos.
O LED de diagnóstico pisca rapidamente a vermelho.	Sem ligação ao controlador. Nenhum nome Profinet definido no módulo.	Consulte Configurar o gateway Profinet na página 131 para definir o nome.
O LED de diagnóstico está vermelho.	Um dispositivo Gateway comunica dados de diagnóstico.	Consulte o relatório de diagnóstico.
O LED L/A 1 ou 2 está apagado.	Sem ligação a uma rede.	Ligue à rede.
O LED L/A 1 ou 2 pisca a verde.	Intercâmbio de dados.	Aguarde até o intercâmbio de dados estar concluído.

Indholdsfortegnelse

- | | | | |
|---|---|---|--|
| 1 | Tilsigtet brug på side 138 | 6 | Opsætning af SC1500 Modbus TCP-telegram til controlleren på side 147 |
| 2 | Introduktion på side 138 | 7 | Konfigurer Ethernet-/IP-gateway på side 150 |
| 3 | Start USB-konfigurationen på side 140 | 8 | Konfigurer Profinet-gatewayen på side 153 |
| 4 | Eksempler på installation på side 141 | 9 | Fejlsøgning på side 156 |
| 5 | Opsætning af SC4200c Modbus TCP-telegram til controlleren på side 144 | | |

Sektion 1 Tilsigtet brug

Disse opsætningsinstruktioner er beregnet til at blive brugt af personer, der integrerer en ekstern Ethernet-/IP-gateway eller Profinet-gateway som hardwarekomponenter i Claros-netværket.

Sektion 2 Introduktion

Producenten er ikke ansvarlig for eventuelle skader på grund af forkert anvendelse eller misbrug af dette produkt, herunder uden begrænsning direkte skader, hændelige skader eller følgeskader, og fraskriver sig ansvaret for sådanne skader i det fulde omfang, som tillades ifølge gældende lov. Kun brugeren er ansvarlig for at identificere alvorlige risici ved anvendelsen og installere relevante mekanismer til beskyttelse af processerne i forbindelse med en eventuel fejl på udstyret.

▲ FARE	
	Fare for livsfarligt elektrisk stød. Frakobl altid strømmen fra instrumentet, før der udføres elektriske tilslutninger.

Følgende skal anvendes:

- USB-nøgle formateret som FAT32
- En pc med Windows¹ 10
- Modul:
 - Til implementering af Ethernet/IP:
 - LXZ446.99.00001: GATEWAY IloT RevPi-basismodul
 - LXZ446.99.00002: GATEWAY Ethernet/IP-slave
 - LXZ446.99.00003: Jumper til PiBridge
 - Til implementering af Profinet:
 - LXZ446.99.00001: GATEWAY IloT RevPi-basismodul
 - LXZ446.99.00007: GATEWAY Profinet IRT-slave
 - LXZ446.99.00003: Jumper til PiBridge

Slut de tre moduler RevPi, slave og PiBridge til strømmen samt LAN-forbindelsen.

Se linkene i den følgende tabel for at få flere oplysninger fra producenten af modulerne.

Modul	Link
GATEWAY Profinet IRT-slave	https://www.kunbus.com/profinet-irt-gateway-module.html
GATEWAY Ethernet/IP-slave	https://www.kunbus.com/ethernet-ip-gateway-module.html
GATEWAY IloT RevPi-basismodul	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US

¹ Microsoft® Windows® er et registreret varemærke tilhørende Microsoft Corporation i USA og andre lande.

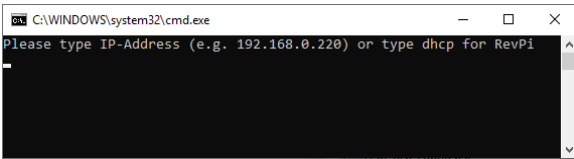
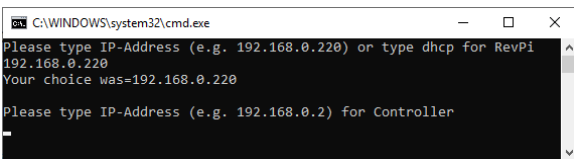
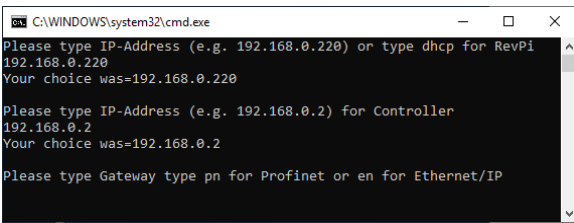
Modul	Link
Sådan tilsluttes RevPi-moduler	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Sådan installeres RevPi-moduler på en DIN-skinne	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Sådan tilsluttes strømforsyningen	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

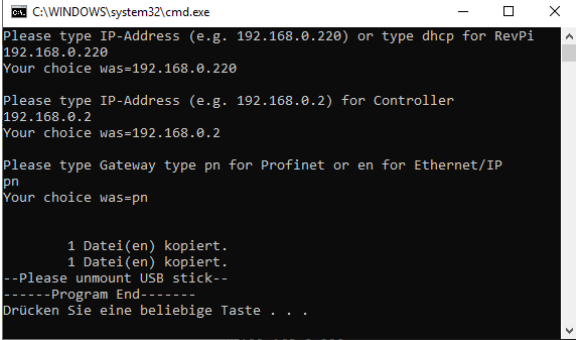


Sådan klargøres USB-nøglen

1. Sæt en tom USB-nøgle i pc'en.
2. Gå til <https://www.hach.com>, og søg efter søgeordene "usb ethernet/IP installation" eller "usb profinet installation".
3. Download USB_ETHIP_PRNET.zip.
4. Pak filen ud i rodmappen på USB-nøglen.

Sektion 3 Start USB-konfigurationen

Sæt det klargjorte USB-stik i pc'en.

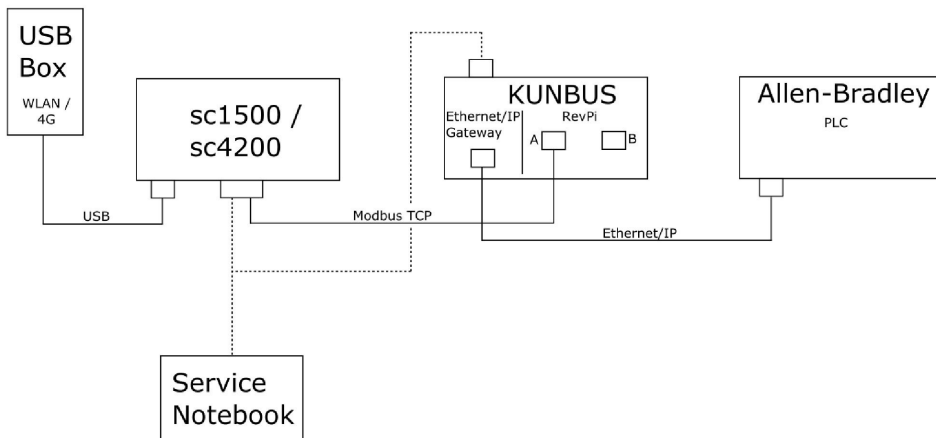
Trin	Beskrivelse	Billede
1	Start start_usb_config.bat. Der åbnes et terminalvindue. Følg den trinvisse vejledning.	
2	Indtast IP-adressen på RevPi-modulet.	
3	Indtast SC-controllerens IP-adresse. Sørg for, at netværkspræfikset er det samme som i RevPI-modulet (f.eks. 192.168.0). Sørg for, at værtsidentifikatoren er forskellig fra RevPI-modulet (f.eks. 220 RevPi, 2 Controller).	
4	Indtast gatewaytypen: <ul style="list-style-type: none">• pn—Profinet• en—Ethernet/IP	

Trin	Beskrivelse	Billede
5	Bekræft indstillingerne med Enter. Fjern USB-nøglen.	 <pre> C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi 192.168.0.220 Your choice was=192.168.0.220 Please type IP-Address (e.g. 192.168.0.2) for Controller 192.168.0.2 Your choice was=192.168.0.2 Please type Gateway type pn for Profinet or en for Ethernet/IP pn Your choice was=pn 1 Datei(en) kopiert. 1 Datei(en) kopiert. --Please unmount USB stick-- -----Program End----- Drücken Sie eine beliebige Taste . . . </pre>
6	Sæt USB-nøglen i venstre USB-stik på RevPi-modulet.	
7	Beskrivelse af indikatorer: <ul style="list-style-type: none"> A1/A2 orange: RevPi-installationen starter. A1 rød, A2 slukket: RevPi indsæt USB-nøgle. A1 grøn, A2 slukket: USB-nøgle isat korrekt. A1 slukket, A2 grøn: RevPi downloader/uploader data fra USB-nøgle. A3 rød: RevPi genstarter. <p>Når A3 er rød, skal du fjerne USB-nøglen.</p>	
8	RevPi-indstillingerne er fuldført.	

Sektion 4 Eksempler på installation

Figur 1 viser en installation med to forskellige LAN-forbindelser.

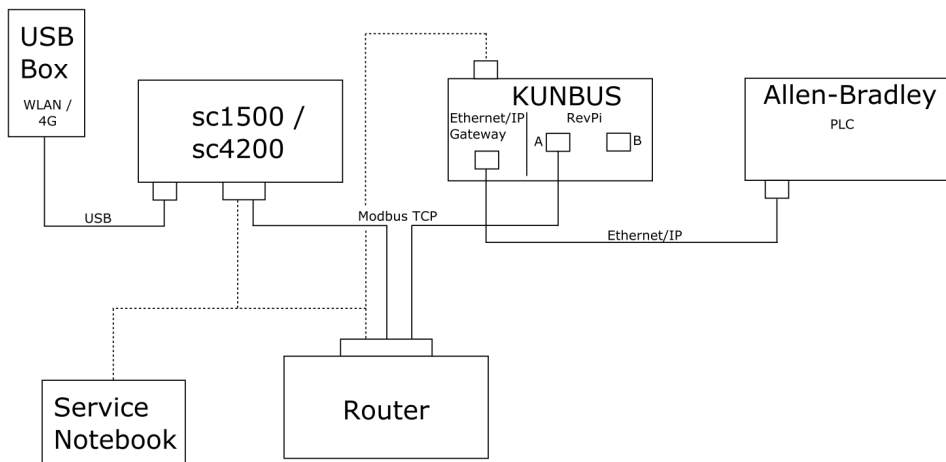
Figur 1 Eksempel 1



- Modbus TCP og Ethernet/IP bruger to forskellige LAN-forbindelser.
- Alle enheder har en statisk IP-adresse.
- Controlleren har internetadgang via trådløst netværk eller mobilforbindelse.
- Du skal bruge en bærbar computer til at konfigurere IP-adresserne på controlleren og Ethernet-/IP-gatewayen.

Figur 2 viser en installation med en router til Modbus TCP-forbindelsen.

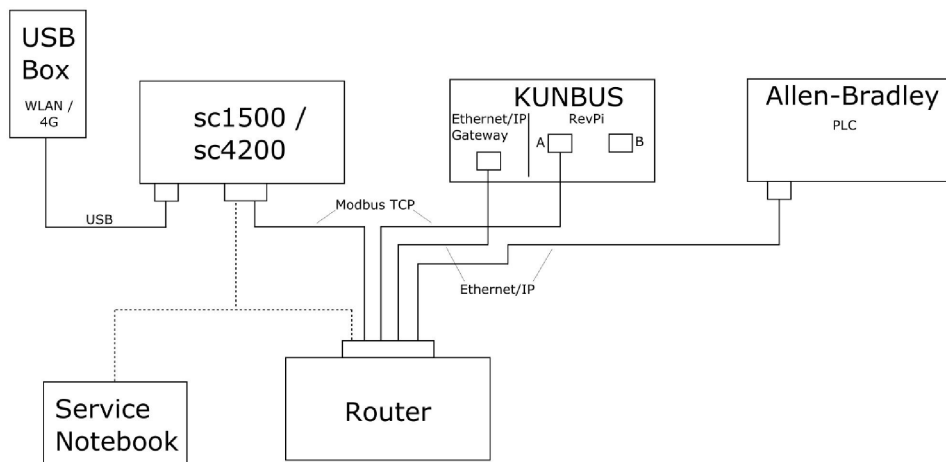
Figur 2 Eksempel 2



- Modbus TCP er forbundet til en router.
- Alle enheder har en statisk IP-adresse, eller routeren indstiller IP-adressen via DHCP.
BEMÆRK: Kontroller, at routeren altid bruger samme IP-adresse til de samme enheder (MAC), hvis der anvendes DHCP.
- Controlleren har internetadgang via trådløst netværk eller mobilforbindelse.
- Du skal bruge en bærbar computer til at konfigurere IP-adressen på kontrolleren, Ethernet-/IP-gatewayen og routerindstillingerne.

Figur 3 viser en installation med en router eller switch til alle enheder.

Figur 3 Eksempel 3



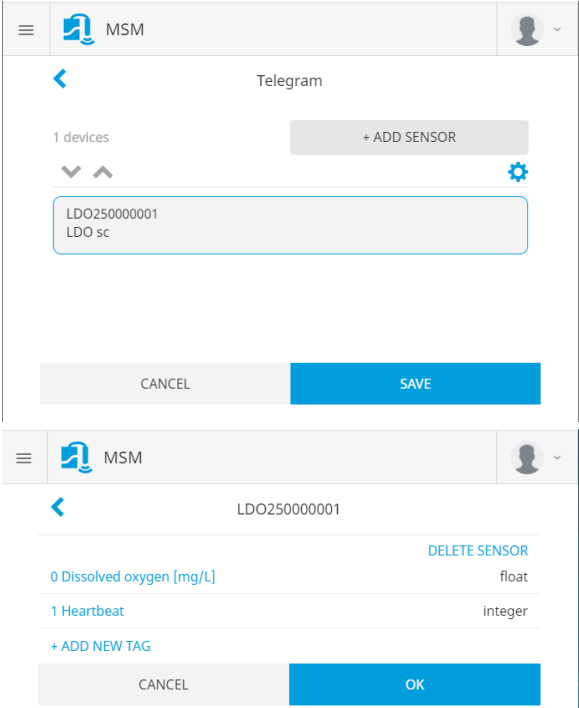
- Alle enheder er sluttet til en router eller switch.

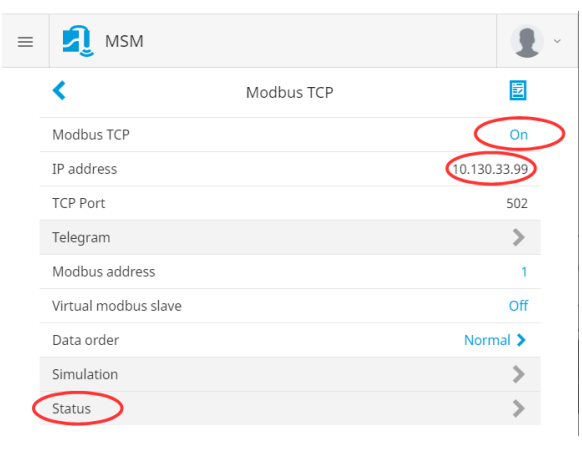
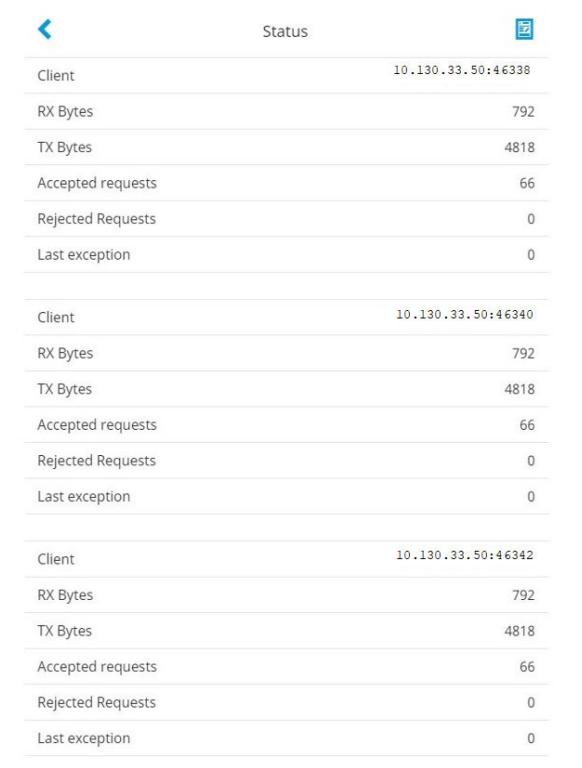
- Alle enheder har en statisk IP-adresse, eller routeren eller switchen indstiller IP-adressen via DHCP.
BEMÆRK: Kontroller, at routeren altid bruger samme IP-adresse til de samme enheder (MAC), hvis der anvendes DHCP.
- Controlleren har internetadgang via trådløst netværk eller mobilforbindelse.
- Du skal bruge en bærbar computer til at konfigurere IP-adressen på controlleren og routerindstillingerne.

Sektion 5 Opsætning af SC4200c Modbus TCP-telegram til controlleren

Start Claros-programmet, og følg den trinvis vejledning.

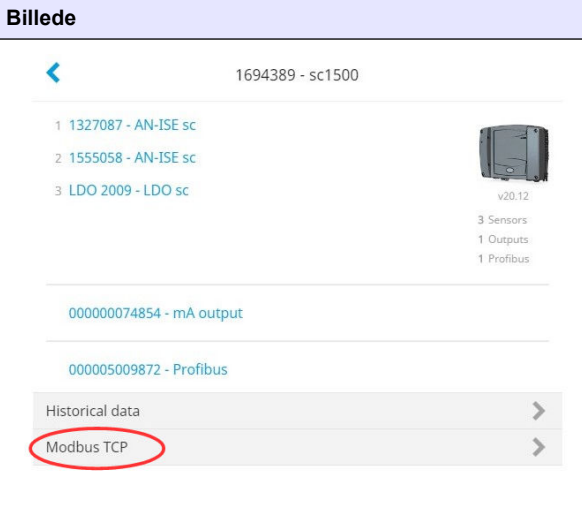
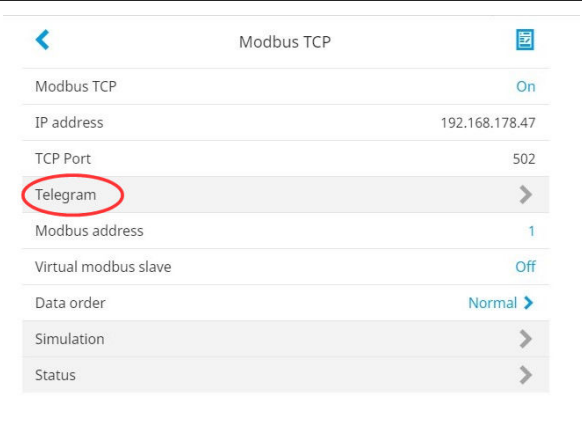
Trin	Beskrivelse	Billede
1	Vælg controllerens menu, og tryk derefter på Modbus TCP .	<p>The screenshot shows the main menu for the device '1732216 - sc4200c'. At the top, there is a notification 'Software update is available'. Below that, a list of components is shown: '1 1761925 - SOLITAX sc', '2 LDO250000001 - LDO sc', '00000001185 - Low voltage relay', '00000001337 - High voltage relay', and '000000079312 - Profibus'. At the bottom, there are two expandable sections: 'Historical data' and 'Modbus TCP', with the latter circled in red.</p>
2	Vælg Telegram for at indstille Modbus TCP-telegrammet.	<p>The screenshot shows the 'Modbus TCP' configuration screen. The 'Modbus TCP' toggle is turned 'On'. The IP address is '10.130.33.99' and the TCP Port is '502'. The 'Telegram' option is circled in red. Other settings include 'Modbus address' set to '1', 'Virtual modbus slave' set to 'Off', and 'Data order' set to 'Normal'. There are also expandable sections for 'Simulation' and 'Status'.</p>

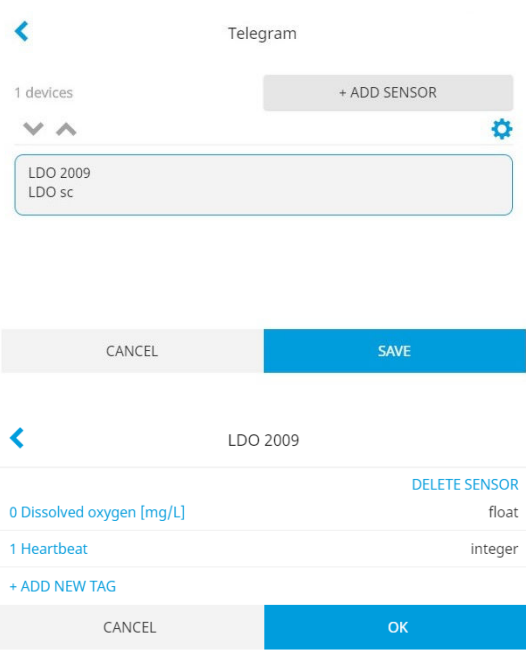
Trin	Beskrivelse	Billede
3	<p>Det viste telegram er et eksempel på LDO SC-sensoren.</p> <p>Indstil Heartbeat til heltal. Heartbeat er en tæller, der viser opdateringen af værdien i trin a et sekund.</p> <p>BEMÆRK: Indholdet af Modbus TCP-telegrammet er det samme som Profibus-telegrammet.</p>	 <p>The image contains two screenshots from the MSM (Modbus Slave Manager) interface. The top screenshot shows the 'Telegram' configuration screen. At the top, there is a header with the MSM logo and a user profile icon. Below the header, there is a back arrow and the title 'Telegram'. Underneath, it says '1 devices' and there is a '+ ADD SENSOR' button. A list of devices is shown with a dropdown arrow and an up arrow, and a gear icon for settings. The device 'LDO250000001 LDO sc' is selected and highlighted. At the bottom, there are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the configuration for the selected device 'LDO250000001'. It has a back arrow and the device ID. There is a 'DELETE SENSOR' link. Below, there are two sensor entries: '0 Dissolved oxygen [mg/L]' with a 'float' data type, and '1 Heartbeat' with an 'integer' data type. There is also a '+ ADD NEW TAG' link. At the bottom, there are 'CANCEL' and 'OK' buttons.</p>

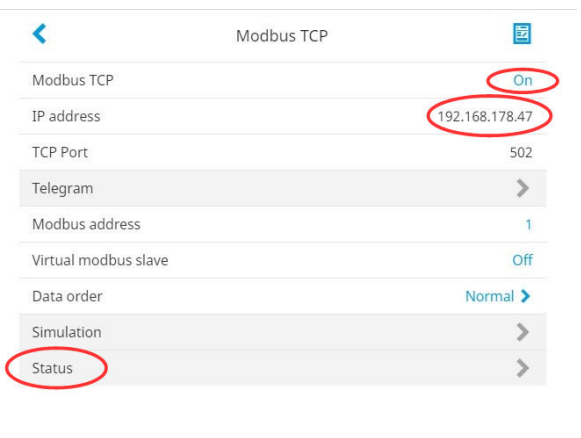
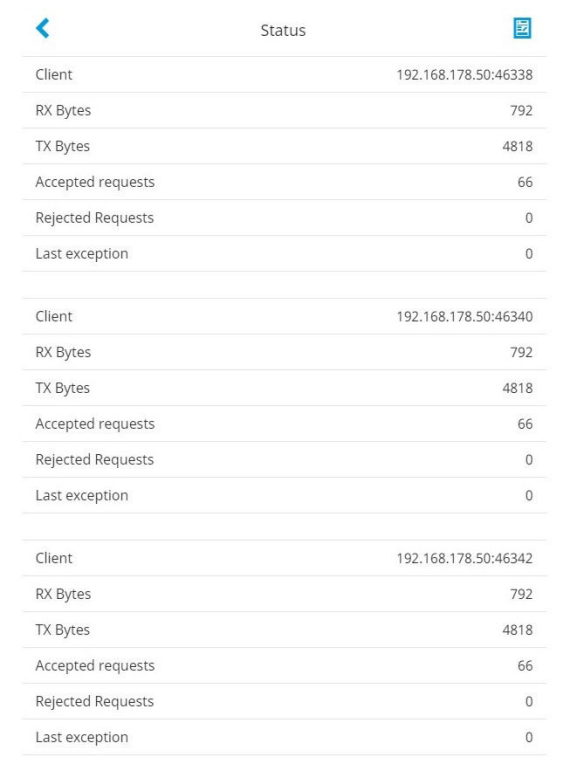
Trin	Beskrivelse	Billede																																				
4	<p>Modbus TCP-menuen viser controllerens IP-adresse. 10.130.33.99 er den IP-adresse, der er angivet i controllerens servicemenu.</p> <p>Indstil Modbus TCP til at være slået til, og tryk derefter på Status.</p>																																					
5	<p>Menuen Status viser statistikken for Modbus TCP. 10.130.33.50 er IP-adressen på RevPi-modulet. RevPi har 5 Modbus TCP-mastere.</p>	 <table border="1"> <thead> <tr> <th>Client</th> <th>10.130.33.50:46338</th> </tr> </thead> <tbody> <tr><td>RX Bytes</td><td>792</td></tr> <tr><td>TX Bytes</td><td>4818</td></tr> <tr><td>Accepted requests</td><td>66</td></tr> <tr><td>Rejected Requests</td><td>0</td></tr> <tr><td>Last exception</td><td>0</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Client</th> <th>10.130.33.50:46340</th> </tr> </thead> <tbody> <tr><td>RX Bytes</td><td>792</td></tr> <tr><td>TX Bytes</td><td>4818</td></tr> <tr><td>Accepted requests</td><td>66</td></tr> <tr><td>Rejected Requests</td><td>0</td></tr> <tr><td>Last exception</td><td>0</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Client</th> <th>10.130.33.50:46342</th> </tr> </thead> <tbody> <tr><td>RX Bytes</td><td>792</td></tr> <tr><td>TX Bytes</td><td>4818</td></tr> <tr><td>Accepted requests</td><td>66</td></tr> <tr><td>Rejected Requests</td><td>0</td></tr> <tr><td>Last exception</td><td>0</td></tr> </tbody> </table>	Client	10.130.33.50:46338	RX Bytes	792	TX Bytes	4818	Accepted requests	66	Rejected Requests	0	Last exception	0	Client	10.130.33.50:46340	RX Bytes	792	TX Bytes	4818	Accepted requests	66	Rejected Requests	0	Last exception	0	Client	10.130.33.50:46342	RX Bytes	792	TX Bytes	4818	Accepted requests	66	Rejected Requests	0	Last exception	0
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Rejected Requests	0																																					
Last exception	0																																					

Sektion 6 Opsætning af SC1500 Modbus TCP-telegram til controlleren

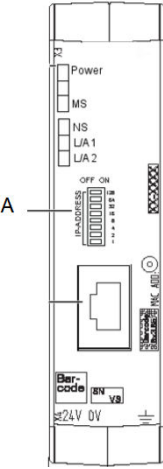
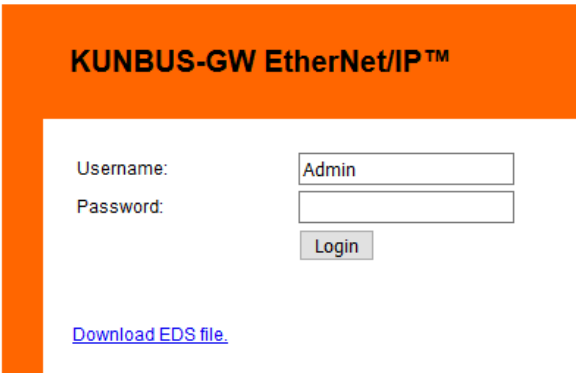
Start Claros-programmet, og følg den trinvise vejledning.

Trin	Beskrivelse	Billede
1	Vælg controllerens menu, og tryk derefter på Modbus TCP .	
2	Vælg Telegram for at indstille Modbus TCP-telegrammet.	

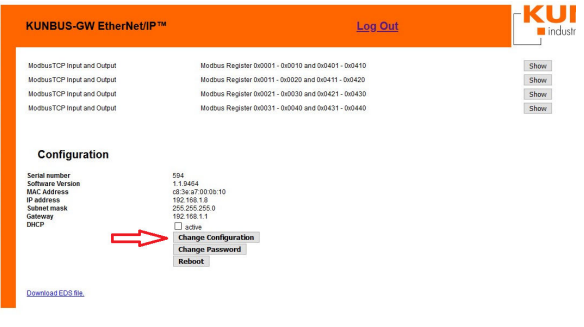

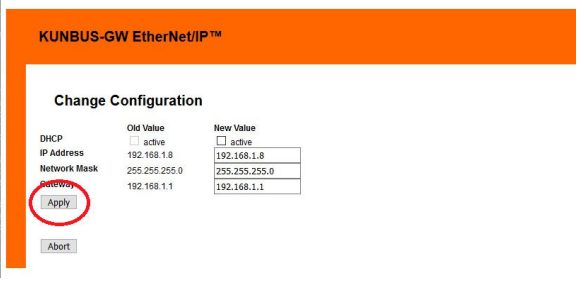
Trin	Beskrivelse	Billede
3	<p>Det viste telegram er et eksempel på LDO SC-sensoren.</p> <p>Indstil Heartbeat til heltal. Heartbeat er en tæller, der viser opdateringen af værdien i trin a et sekund.</p> <p>BEMÆRK: Indholdet af Modbus TCP-telegrammet er det samme som Profibus-telegrammet.</p>	 <p>The image shows two screenshots of a sensor configuration interface. The top screenshot is titled 'Telegram' and shows '1 devices' with a '+ ADD SENSOR' button. Below this is a list of sensors: 'LDO 2009' and 'LDO sc'. At the bottom are 'CANCEL' and 'SAVE' buttons. The bottom screenshot is titled 'LDO 2009' and shows '0 Dissolved oxygen [mg/L]' with a 'float' data type and '1 Heartbeat' with an 'integer' data type. There is a 'DELETE SENSOR' link and a '+ ADD NEW TAG' button. At the bottom are 'CANCEL' and 'OK' buttons.</p>

Trin	Beskrivelse	Billede
4	<p>Modbus TCP-menuen viser controllerens IP-adresse. 192.168.178.47 er den IP-adresse, der er angivet i controllerens servicemenu.</p> <p>Indstil Modbus TCP til at være slået til, og tryk derefter på Status.</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a back arrow, the title 'Modbus TCP', and a help icon. Below are several settings: 'Modbus TCP' (On), 'IP address' (192.168.178.47), 'TCP Port' (502), 'Telegram' (right arrow), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal), 'Simulation' (right arrow), and 'Status' (right arrow). Red circles highlight the 'On' toggle, the IP address '192.168.178.47', and the 'Status' option.</p>
5	<p>Menuen Status viser statistikken for Modbus TCP. 192.168.178.50 er IP-adressen på RevPi-modulet. RevPi har 7 Modbus TCP-mastere.</p>	 <p>The screenshot shows the 'Status' screen with three client entries. Each entry lists: Client IP, RX Bytes, TX Bytes, Accepted requests, Rejected Requests, and Last exception. The data for all three clients is identical: 192.168.178.50:46338, 792, 4818, 66, 0, 0.</p>

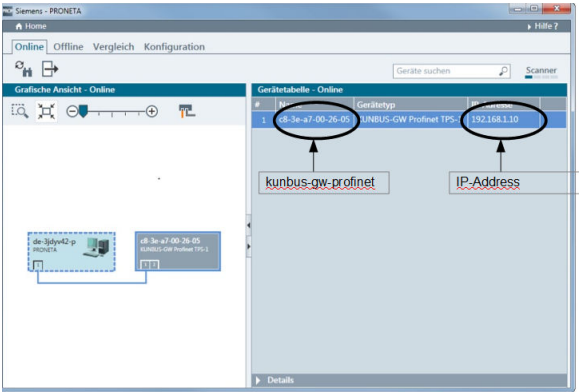
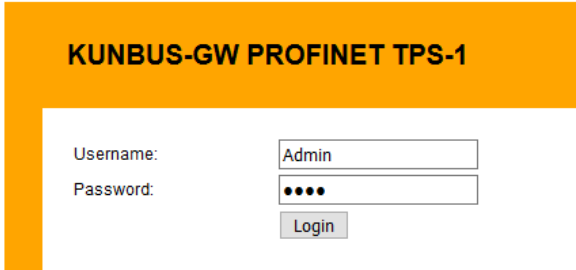
Sektion 7 Konfigurer Ethernet-/IP-gateway

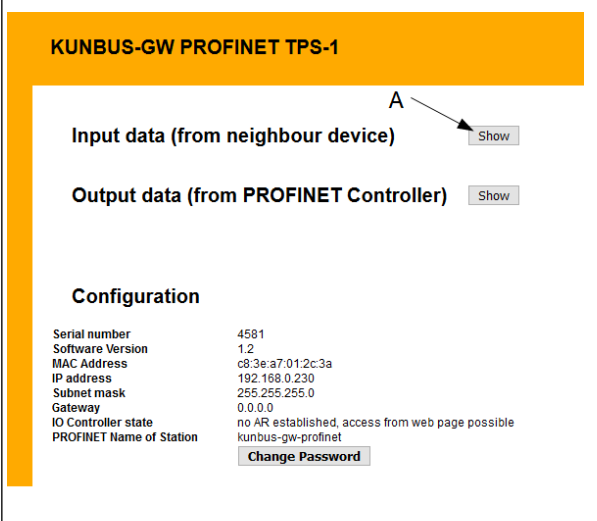
Trin	Beskrivelse	Billede
1	<ul style="list-style-type: none">• Tilslut Ethernet-/IP-gatewayen til pc'en med LAN-til-USB-adapterkablet.• Se Introduktion på side 138. Brug linket til GATEWAY Ethernet/IP-slave. Følg instruktionerne i producentens brugervejledning, <i>Gatewaykomponent til Ethernet/IP</i>.• Brug den 8-bens adresse-switch (A) til at indstille værts-id'et til gatewayens binære format.<ul style="list-style-type: none">• Eksempel: Indstil værten til 8: 00010000• Åbn webstedet http://192.168.1.X (X = summen af alle switches, der er slået TIL).	 <p>The diagram shows the physical components of the KUNBUS-GW EtherNet/IP module. At the top, there are labels for 'Power', 'MS', 'NS', 'LIA 1', and 'LIA 2'. Below these is an 8-bit address switch labeled 'A' with positions for '0' through '7'. To the right of the switch is a 'OFF ON' indicator. At the bottom, there is a 'Bar-CODE' area with 'BN' and 'VB' labels, and a '24V DV' power source symbol.</p>
2	<p>Åbn browseren, og indtast IP-adressen 192.168.1.X. Login-data til første login: Bruger: Admin Adgangskode: 1701 Tryk på Log ind.</p>	 <p>The screenshot shows the login interface for the KUNBUS-GW EtherNet/IP device. The background is orange with the text 'KUNBUS-GW EtherNet/IP™'. Below this is a white login form with the following elements:<ul style="list-style-type: none">Username: Admin (text entered in the field)Password: (empty field)Login buttonDownload EDS file. (blue link)</p>

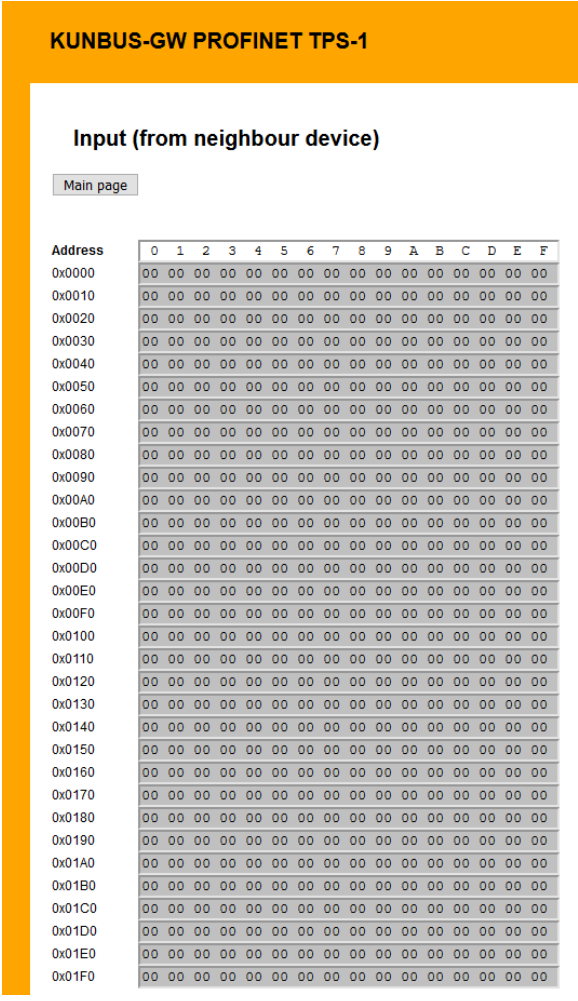
Trin	Beskrivelse	Billede																																																																																																						
3	<p>Controlleren og Ethernet-/IP-gatewayen overfører dataområdet 0000-01BF, som er et område på 448 byte eller 112 float eller 224 heftal eller en blanding af disse, baseret på telegramtypen af Modbus TCP i kontrolleren.</p> <p>BEMÆRK: Kun det første dataområde op til 32 heftal vises. Vis alle data i PLC'en (224 heftal).</p> <p>Tryk på Vis.</p>																																																																																																							
4	<p>Det valgte dataområde vises.</p>	<table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1 0x0001</td><td>0</td><td>Output 1</td><td>0x0401</td><td>0</td><td>Send</td></tr> <tr><td>Input 2 0x0002</td><td>0</td><td>Output 2</td><td>0x0402</td><td>0</td><td>Send</td></tr> <tr><td>Input 3 0x0003</td><td>0</td><td>Output 3</td><td>0x0403</td><td>0</td><td>Send</td></tr> <tr><td>Input 4 0x0004</td><td>0</td><td>Output 4</td><td>0x0404</td><td>0</td><td>Send</td></tr> <tr><td>Input 5 0x0005</td><td>0</td><td>Output 5</td><td>0x0405</td><td>0</td><td>Send</td></tr> <tr><td>Input 6 0x0006</td><td>0</td><td>Output 6</td><td>0x0406</td><td>0</td><td>Send</td></tr> <tr><td>Input 7 0x0007</td><td>0</td><td>Output 7</td><td>0x0407</td><td>0</td><td>Send</td></tr> <tr><td>Input 8 0x0008</td><td>0</td><td>Output 8</td><td>0x0408</td><td>0</td><td>Send</td></tr> <tr><td>Input 9 0x0009</td><td>0</td><td>Output 9</td><td>0x0409</td><td>0</td><td>Send</td></tr> <tr><td>Input 10 0x000a</td><td>0</td><td>Output 10</td><td>0x040A</td><td>0</td><td>Send</td></tr> <tr><td>Input 11 0x000b</td><td>0</td><td>Output 11</td><td>0x040B</td><td>0</td><td>Send</td></tr> <tr><td>Input 12 0x000c</td><td>0</td><td>Output 12</td><td>0x040C</td><td>0</td><td>Send</td></tr> <tr><td>Input 13 0x000d</td><td>0</td><td>Output 13</td><td>0x040D</td><td>0</td><td>Send</td></tr> <tr><td>Input 14 0x000e</td><td>0</td><td>Output 14</td><td>0x040E</td><td>0</td><td>Send</td></tr> <tr><td>Input 15 0x000f</td><td>0</td><td>Output 15</td><td>0x040F</td><td>0</td><td>Send</td></tr> <tr><td>Input 16 0x0010</td><td>0</td><td>Output 16</td><td>0x0410</td><td>0</td><td>Send</td></tr> </tbody> </table>	Address	Value					Input 1 0x0001	0	Output 1	0x0401	0	Send	Input 2 0x0002	0	Output 2	0x0402	0	Send	Input 3 0x0003	0	Output 3	0x0403	0	Send	Input 4 0x0004	0	Output 4	0x0404	0	Send	Input 5 0x0005	0	Output 5	0x0405	0	Send	Input 6 0x0006	0	Output 6	0x0406	0	Send	Input 7 0x0007	0	Output 7	0x0407	0	Send	Input 8 0x0008	0	Output 8	0x0408	0	Send	Input 9 0x0009	0	Output 9	0x0409	0	Send	Input 10 0x000a	0	Output 10	0x040A	0	Send	Input 11 0x000b	0	Output 11	0x040B	0	Send	Input 12 0x000c	0	Output 12	0x040C	0	Send	Input 13 0x000d	0	Output 13	0x040D	0	Send	Input 14 0x000e	0	Output 14	0x040E	0	Send	Input 15 0x000f	0	Output 15	0x040F	0	Send	Input 16 0x0010	0	Output 16	0x0410	0	Send
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Trin	Beskrivelse	Billede															
5	<p>Tryk på Skift konfiguration for at indstille IP-adressen.</p>	 <p>KUNBUS-GW EtherNet/IP™ Log Out </p> <p>ModbusTCP Input and Output Modbus Register 0x0011 - 0x0010 and 0x0421 - 0x0410 Show</p> <p>ModbusTCP Input and Output Modbus Register 0x0011 - 0x0020 and 0x0411 - 0x0420 Show</p> <p>ModbusTCP Input and Output Modbus Register 0x0021 - 0x0030 and 0x0421 - 0x0430 Show</p> <p>ModbusTCP Input and Output Modbus Register 0x0031 - 0x0040 and 0x0431 - 0x0440 Show</p> <p>Configuration</p> <p>Serial Number 594</p> <p>Software Version 1.1.9464</p> <p>MAC Address 62:34:37:00:00:10</p> <p>IP Address 192.168.1.8</p> <p>Subnet mask 255.255.255.0</p> <p>Gateway 192.168.1.1</p> <p>DHCP <input type="checkbox"/> active</p> <p style="text-align: right;"> Change Configuration Change Password Reboot </p> <p>Download EDS file</p>															
6	<p>Skift IP-adressen i overensstemmelse med gatewayadressen.</p> <p>Tryk på Anvend for at bekræfte.</p> <p>Indstil alle DIP-kontakter til at være slået fra.</p> <p>Indstil strømmen til gatewayen til at være slået fra, og genstart derefter. Nu bruges den nye IP-adresse.</p>	 <p>KUNBUS-GW EtherNet/IP™</p> <p>Change Configuration</p> <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td><input type="checkbox"/> active</td> <td><input type="checkbox"/> active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table> <p>Apply Abort</p>		Old Value	New Value	DHCP	<input type="checkbox"/> active	<input type="checkbox"/> active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0	Gateway	192.168.1.1	192.168.1.1
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Gateway	192.168.1.1	192.168.1.1															

Sektion 8 Konfigurer Profinet-gatewayen

Trin	Beskrivelse	Billede
1	<ul style="list-style-type: none">• Slut Profinet-gatewayen til pc'en med LAN-til-LAN-adapteren.• Se Introduktion på side 138. Brug linket til GATEWAY Profinet IRT-slave. Følg instruktionerne i producentens brugervejledning, <i>Gatewaykomponent til PROFINET</i>.• Brug softwaren PRONETA til at indstille navnet til kunbus-gw-profinet.• Indtast den anvendte IP-adresse.	
2	<p>Åbn browseren, og indtast IP-adressen. Login-data til første login: Bruger: Admin Adgangskode: 1701 Tryk på Log ind.</p>	

Trin	Beskrivelse	Billede																
3	Tryk på Vis (A) for at få vist inputdata.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
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4	<p>Viser alle data, der er sendt fra controlleren til Profinet-gatewayen.</p> <p>Controlleren og Profinet-gatewayen overfører dataområdet 0000-01BF, som er et område på 448 byte eller 112 float eller 224 heltal eller en blanding af disse, baseret på telegramtypen af Modbus TCP i controlleren.</p>	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input (from neighbour device)</p> <p>Main page</p> <table border="1"> <thead> <tr> <th>Address</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Sektion 9 Fejlsøgning

9.1 Fejlfinding af RevPi

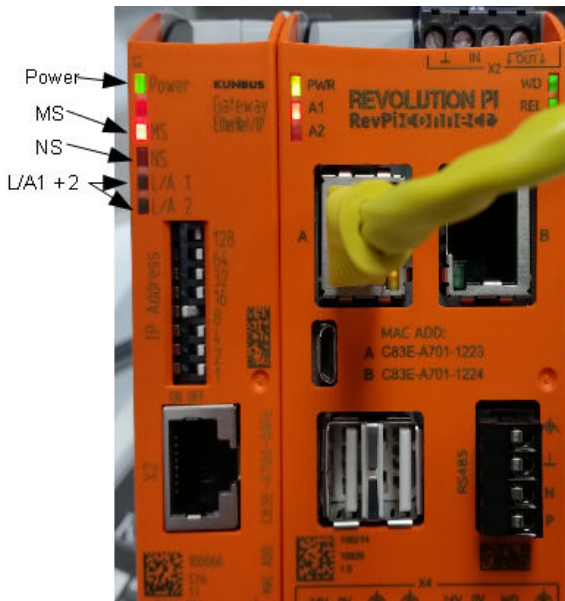
Figur 4 RevPi-basismodul



Meddelelse	Beskrivelse	Løsning
Indikator A2 blinker rødt.	Kommunikationen er stoppet.	<ul style="list-style-type: none">• Tilslut netværkskablet (kabel eller router).• Indstil Modbus-adresseindstillingen i Claros til 1.• Indstil Modbus TCP i Claros-menuen som slået til.
Indikator A3 blinker langsomt rødt.	Konfigurationen af Ethernet-/IP- og Profinet-gateway er blandet sammen.	Se Start USB-konfigurationen på side 140, trin 4, og vælg den korrekte gatewaytype: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Fejlfinding af Ethernet/IP

Figur 5 Ethernet-/IP-gateway

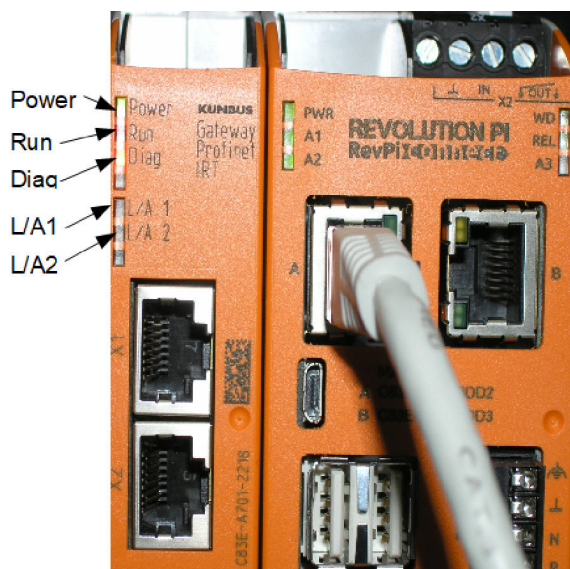


Meddelelse	Beskrivelse	Løsning
Strømindikatoren er slukket.	Ethernet-/IP-gatewayen er slået fra.	Slå strømmen til.
Strømindikatoren blinker grønt.	Opstartsproceduren er ikke fuldført.	Vent et par minutter.
Strømindikatoren blinker rødt.	Viser en advarsel.	Undersøg, om alle enhederne er tilsluttet.
Strømindikatoren lyser rødt.	Viser en fejl.	Ethernet-/IP-gatewayen er defekt. Udskift Ethernet-/IP-gatewayen.
MS-indikatoren er slukket.	Ethernet-/IP-gatewayen er slået fra.	Slå strømmen til.
MS-indikatoren blinker grønt.	Konfigurationsproceduren er ikke fuldført.	Vent et par minutter.
MS-indikatoren blinker rødt.	Viser en konfigurationsfejl.	Se Konfigurer Ethernet-/IP-gateway på side 150 for at undersøge konfigurationen.
MS-indikatoren lyser rødt.	Viser en fejl.	Ethernet-/IP-gatewayen er defekt. Udskift Ethernet-/IP-gatewayen.
MS-indikatoren blinker rødt og grønt.	Selvtesten er ikke fuldført.	Vent et par minutter.

Meddelelse	Beskrivelse	Løsning
NS-indikatoren er slukket.	Ethernet-/IP-gatewayen er indstillet som slået fra eller har ingen IP-adresse.	Slå strømmen til. Konfigurer IP-adressen.
NS-indikatoren blinker grønt.	IP-adressen er indstillet, men CIP-forbindelsen er ikke oprettet.	Vent et par minutter.
NS-indikatoren blinker rødt.	CIP-forbindelsen er stoppet.	Undersøg, om der er timeout.
NS-lysdioden lyser rødt	Den valgte IP-adresse bruges af en anden enhed.	Skift IP-adressen til en unik IP-adresse.
L/A 1 eller 2 indikatorer er slukket.	Der er ingen forbindelse til andre enheder.	Opret forbindelse til en enhed.
L/A 1 eller 2 indikatorer blinker grønt.	Ingen dataudveksling.	Vent til næste dataudveksling.

9.3 Fejlfinding af Profinet

Figur 6 Profinet-gateway



Meddelelse	Beskrivelse	Løsning
Strømindikatoren er slukket.	Profinet-gatewayen er slukket.	Slå strømmen til.
Strømindikatoren blinker grønt.	Opstartsproceduren er ikke afsluttet.	Vent et par minutter.
Strømindikatoren blinker rødt.	Viser en advarsel.	Undersøg, om alle enhederne er installeret.

Meddelelse	Beskrivelse	Løsning
Strømindikatoren lyser rødt.	Viser en fejl.	Profinet-gatewayen er defekt. Udskift Profinet-gatewayen.
RUN-indikatoren er slukket.	Ingen forbindelse til et netværk.	Opret forbindelse til netværk.
Run-indikatoren blinker grønt.	Profinet-controlleren er tilsluttet, men der er ingen dataudveksling.	Vent til næste dataudveksling.
Run-indikatoren langsomt grønt.	Udløses af værktøjet til identifikation af gatewaykomponenten.	Vent et par minutter.
Diagnoseindikatoren blinker rødt.	Udløses af værktøjet til identifikation af gatewaykomponenten.	Vent et par minutter.
Diagnoseindikatoren blinker hurtigt rødt.	Ingen forbindelse til controlleren. Der er ikke angivet noget navn for Profinet i modulet.	Se Konfigurer Profinet-gatewayen på side 153 for at indstille navnet.
Diagnoseindikatoren lyser rødt.	En gatewayenhed rapporterer diagnosticeringsdata.	Se diagnosticeringsrapporten.
L/A 1 eller 2 indikatorer er slukket.	Ingen forbindelse til et netværk.	Opret forbindelse til netværk.
L/A 1 eller 2 indikatorer blinker grønt.	Dataudveksling.	Vent, indtil dataudvekslingen er fuldført.

Inhoudsopgave

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- 3 [De USB-configuratie starten](#) op pagina 162
- 4 [Voorbeelden voor installatie](#) op pagina 163
- 5 [Instellen van Modbus TCP-telegram voor SC4200c-controller](#) op pagina 166
- 6 [Instellen van Modbus TCP-telegram voor SC1500-controller](#) op pagina 169
- 7 [De Ethernet/IP-gateway configureren](#) op pagina 172
- 8 [De Profinet-gateway configureren](#) op pagina 175
- 9 [Problemen oplossen](#) op pagina 178

Hoofdstuk 1 Gebruiksdoel

Deze installatie-instructies zijn bedoeld voor personen die een externe Ethernet/IP-gateway of Profinet-gateway als hardwarecomponenten in het Claros-netwerk integreren.

Hoofdstuk 2 Inleiding

De fabrikant is niet verantwoordelijk voor enige schade door onjuist toepassen of onjuist gebruik van dit product met inbegrip van, zonder beperking, directe, incidentele en gevolgschade, en vrijwaart zich volledig voor dergelijke schade voor zover dit wettelijk is toegestaan. Uitsluitend de gebruiker is verantwoordelijk voor het identificeren van kritische toepassingsrisico's en het installeren van de juiste mechanismen om processen te beschermen bij een mogelijk onjuist functioneren van apparatuur.

▲ GEVAAR



Elektrocutiegevaar. Koppel altijd het instrument los van de netvoeding voordat u elektrische aansluitingen tot stand brengt.

Te verzamelen items:

- USB-stick geformatteerd als FAT32
- PC met Windows¹ 10
- Optionele modules:
 - Voor Ethernet/IP-implementatie:
 - LXZ446.99.00001: GATEWAY IIoT RevPi-basismodule
 - LXZ446.99.00002: GATEWAY Ethernet/IP-slave
 - LXZ446.99.00003: Jumper voor PiBridge
 - Voor Profinet-implementatie:
 - LXZ446.99.00001: GATEWAY IIoT RevPi-basismodule
 - LXZ446.99.00007: GATEWAY Profinet IRT-slave
 - LXZ446.99.00003: Jumper voor PiBridge

Sluit de drie modules RevPi, Slave en PiBridge aan op voeding en LAN.

Raadpleeg de links in de volgende tabel voor meer informatie van de fabrikant van de modules.

Optionele modules	Koppeling
GATEWAY Profinet IRT-slave	https://www.kunbus.com/profinet-irt-gateway-module.html
GATEWAY Ethernet/IP-slave	https://www.kunbus.com/ethernet-ip-gateway-module.html

¹ Microsoft® Windows® is een gedeponeerde handelsmerk van Microsoft Corporation in de Verenigde Staten en andere landen.

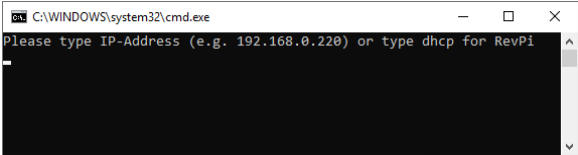
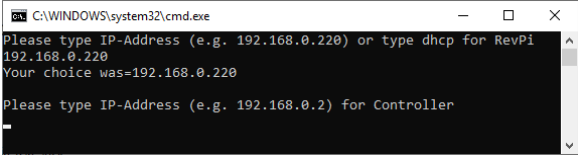
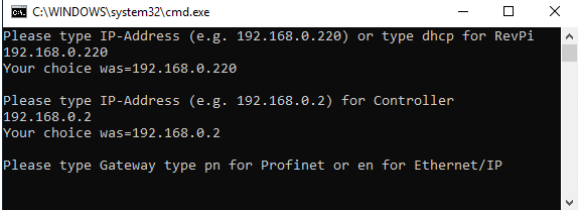
Optionele modules	Koppeling
GATEWAY IIoT RevPi-basismodule	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
RevPi-modules aansluiten	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
RevPi-modules op een DIN-rail installeren	https://revolution.kunbus.com/tutorials/din-rail-mounting/
De stroomvoorziening aansluiten	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

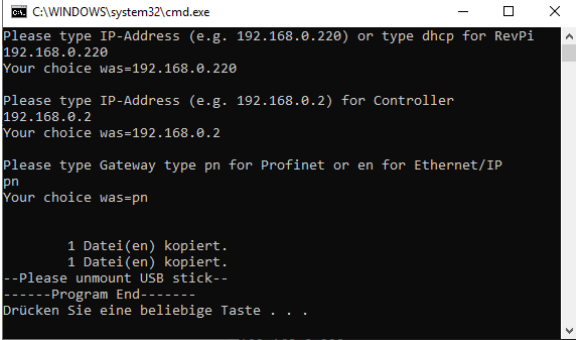


De USB-stick voorbereiden

1. Plaats een lege USB-stick in de PC.
2. Ga naar <https://www.hach.com> en zoek naar de trefwoorden "usb Ethernet/IP installation" (USB-installatie Ethernet/IP) of "usb profinet installation" (USB-installatie profinet).
3. Download USB_ETHIP_PRNET.zip.
4. Pak het bestand uit in de hoofdmap van de USB-stick.

Hoofdstuk 3 De USB-configuratie starten

Plaats de voorbereide USB-stick in de PC.

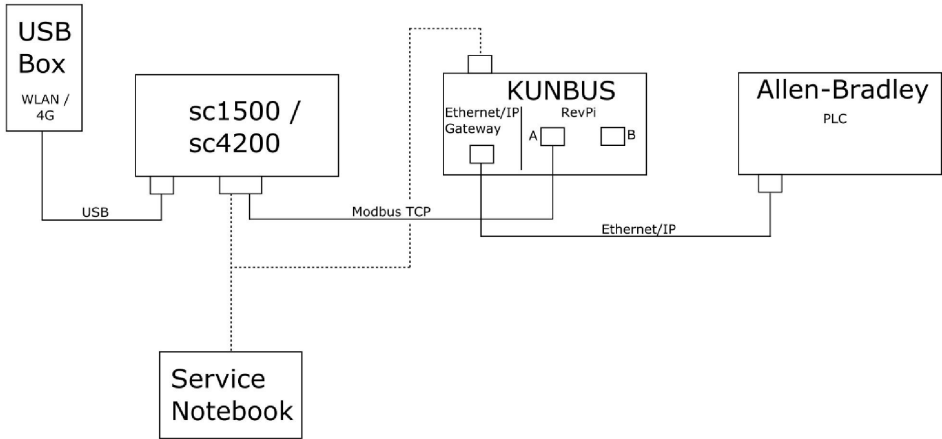
Stap	Beschrijving	Beeld
1	Start start_usb_config.bat. Er wordt een terminalvenster geopend. Volg de stapsgewijze handleiding.	
2	Voer het IP-adres van de RevPi-module in.	
3	Voer het IP-adres van de SC-controller in. Zorg ervoor dat het netwerkvoorvoegsel hetzelfde is als dat van de RevPi-module (bijv. 192.168.0). Zorg ervoor dat de host-id verschilt van de RevPi-module (bijv. 220 RevPi, 2 Controller).	
4	Voer het type gateway in: <ul style="list-style-type: none">• pn—Profinet• en—Ethernet/IP	

Stap	Beschrijving	Beeld
5	Bevestig de instellingen met Enter. Verwijder de USB-stick.	
6	Plaats de USB-stick in de linker USB-aansluiting van de RevPi-module.	
7	LED-beschrijving: <ul style="list-style-type: none"> • A1/A2 oranje: RevPi-installatie wordt gestart. • A1 rood, A2 uit: plaats USB-stick in RevPi. • A1 groen, A2 uit: USB-stick geplaatst. • A1 uit, A2 groen: RevPi downloadt/uploadt gegevens van USB-stick. • A3 rood: RevPi start opnieuw op. Als A3 rood is, verwijdert u de USB-stick.	
8	De RevPi-instellingen zijn voltooid.	

Hoofdstuk 4 Voorbeelden voor installatie

Afbeelding 1 toont een installatie met twee verschillende LAN-verbindingen.

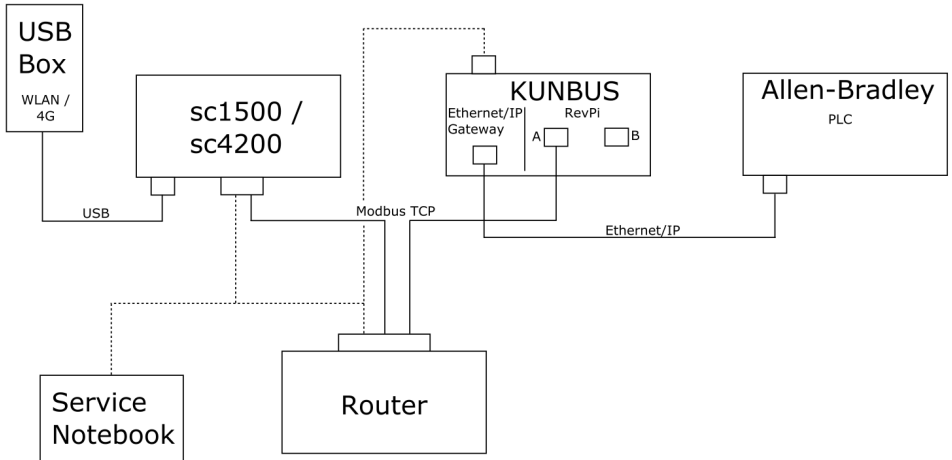
Afbeelding 1 Voorbeeld 1



- Modbus TCP en Ethernet/IP maken gebruik van twee verschillende LAN-verbindingen.
- Alle apparaten hebben een statisch IP-adres.
- De controller heeft internettoegang via WiFi of een mobiele verbinding.
- Om de IP-adressen van de controller en de Ethernet/IP-gateway in te stellen, hebt u een laptop nodig.

Afbeelding 2 toont een installatie met een router voor de Modbus TCP-verbinding.

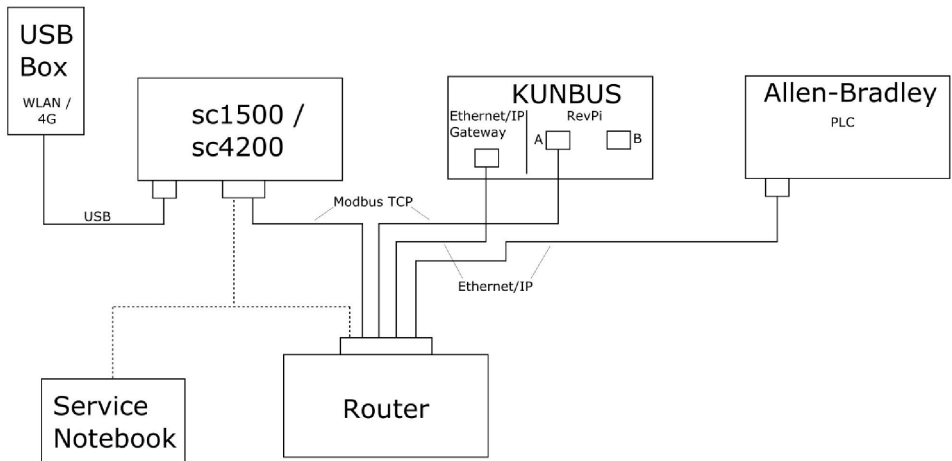
Afbeelding 2 Voorbeeld 2



- De Modbus TCP is verbonden met een router.
- Alle apparaten hebben een statisch IP-adres of de router stelt het IP-adres in via DHCP.
Opmerking: Controleer of de router altijd hetzelfde IP-adres gebruikt voor dezelfde apparaten (MAC) als DHCP wordt gebruikt.
- De controller heeft internettoegang via WiFi of een mobiele verbinding.
- Om het IP-adressen van de controller, de Ethernet/IP-gateway en de routerinstellingen in te stellen, hebt u een laptop nodig.

Afbeelding 3 toont een installatie met een router of switch voor alle apparaten.

Afbeelding 3 Voorbeeld 3

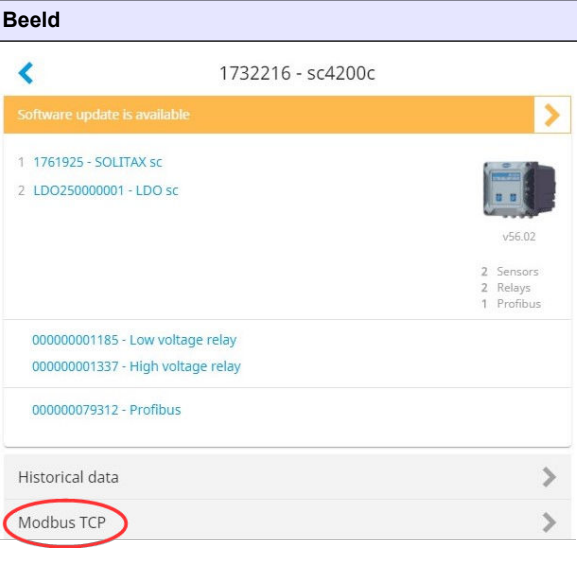
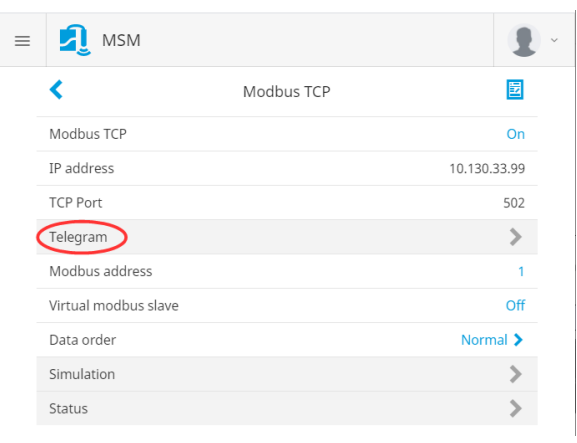


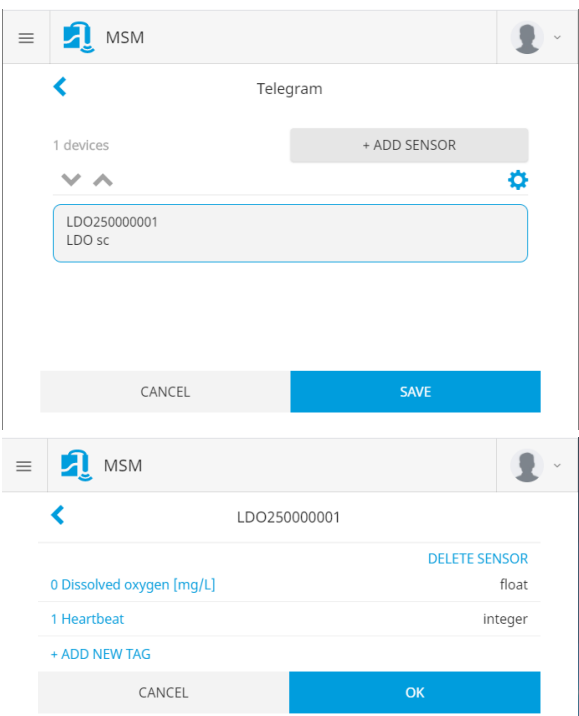
- Alle apparaten zijn verbonden met een router of switch.

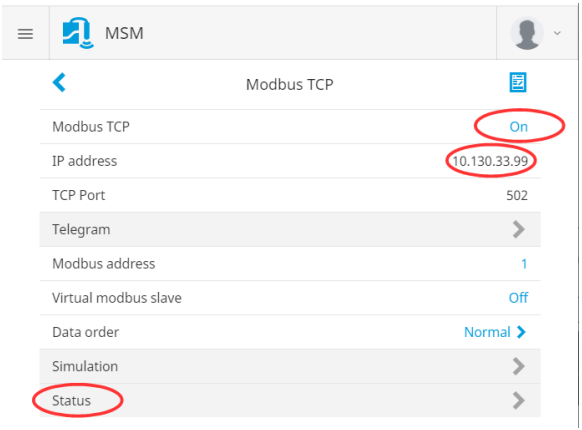

- Alle apparaten hebben een statisch IP-adres of de router of switch stelt het IP-adres in via DHCP. **Opmerking:** Controleer of de router altijd hetzelfde IP-adres gebruikt voor dezelfde apparaten (MAC) als DHCP wordt gebruikt.
- De controller heeft internettoegang via WiFi of een mobiele verbinding.
- Om het IP-adres van de controller en de routerinstellingen in te stellen, hebt u een laptop nodig.

Hoofdstuk 5 Instellen van Modbus TCP-telegram voor SC4200c-controller

Start de Claros-toepassing en volg de stapsgewijze handleiding.

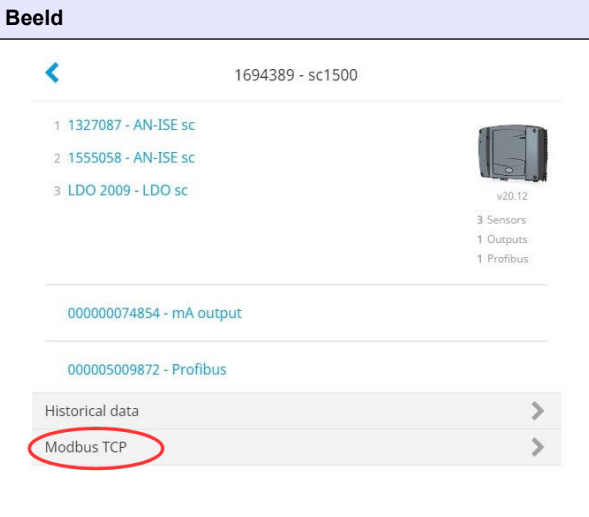
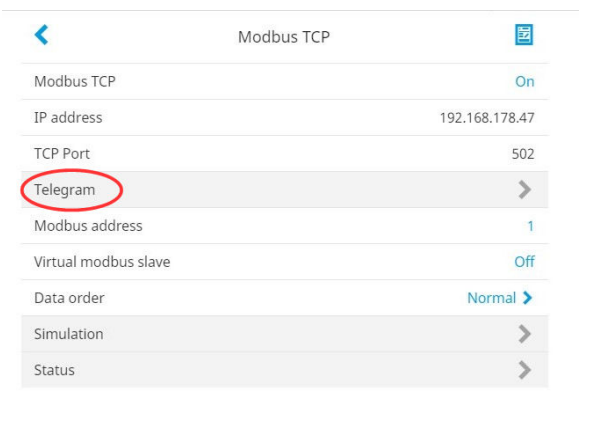
Stap	Beschrijving	Beeld
1	Selecteer het controllermenu en druk vervolgens op Modbus TCP .	 <p>The screenshot shows the main interface of the SC4200c controller. At the top, it displays '1732216 - sc4200c'. Below this, there is a yellow notification bar for a software update. A list of sensors and relays is shown, including '1761925 - SOLITAX sc', 'LDO25000001 - LDO sc', and various relay addresses. At the bottom, there are menu options for 'Historical data' and 'Modbus TCP', with the latter being circled in red.</p>
2	Selecteer Telegram om het Modbus TCP-telegram in te stellen.	 <p>The screenshot shows the 'Modbus TCP' configuration screen. It includes a header with 'MSM' and a user profile icon. The main content area lists several configuration parameters: 'Modbus TCP' (On), 'IP address' (10.130.33.99), 'TCP Port' (502), 'Telegram' (circled in red), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal), 'Simulation', and 'Status'. Each parameter has a corresponding value and a right-pointing arrow to indicate further configuration options.</p>

Stap	Beschrijving	Beeld
3	<p>Het getoonde telegram is een voorbeeld voor de LDO sc-sensor.</p> <p>Stel de hartslag in op hele getallen. De hartslag is een teller die de update van de waarde toont in stappen van één seconde.</p> <p><i>Opmerking: De inhoud van het Modbus TCP-telegram is gelijk aan die van het Profibus-telegram.</i></p>	 <p>The image contains two screenshots from the MSM (Modbus Slave Manager) interface. The top screenshot shows the 'Telegram' configuration screen. At the top, there is a header with the MSM logo and a user profile icon. Below the header, there is a back arrow and the title 'Telegram'. Underneath, it says '1 devices' and has a '+ ADD SENSOR' button. A list of devices is shown with a dropdown arrow and an up arrow, and a gear icon for settings. The device list contains 'LDO250000001' and 'LDO sc'. At the bottom, there are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the configuration for the 'LDO250000001' sensor. It has a header with the MSM logo and a user profile icon, a back arrow, and the title 'LDO250000001'. Below the header, there is a 'DELETE SENSOR' link. The configuration list shows '0 Dissolved oxygen [mg/L]' with a 'float' data type and '1 Heartbeat' with an 'integer' data type. There is also a '+ ADD NEW TAG' link. At the bottom, there are 'CANCEL' and 'OK' buttons.</p>

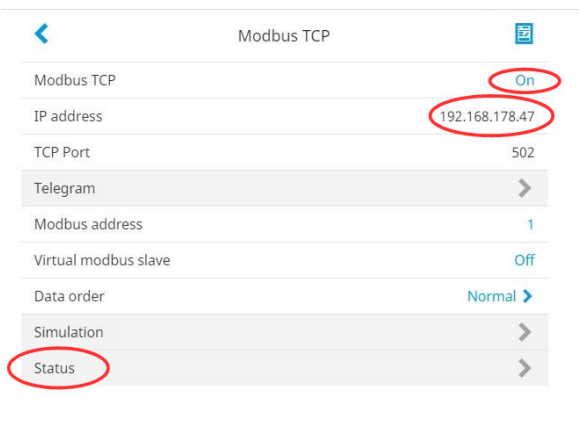
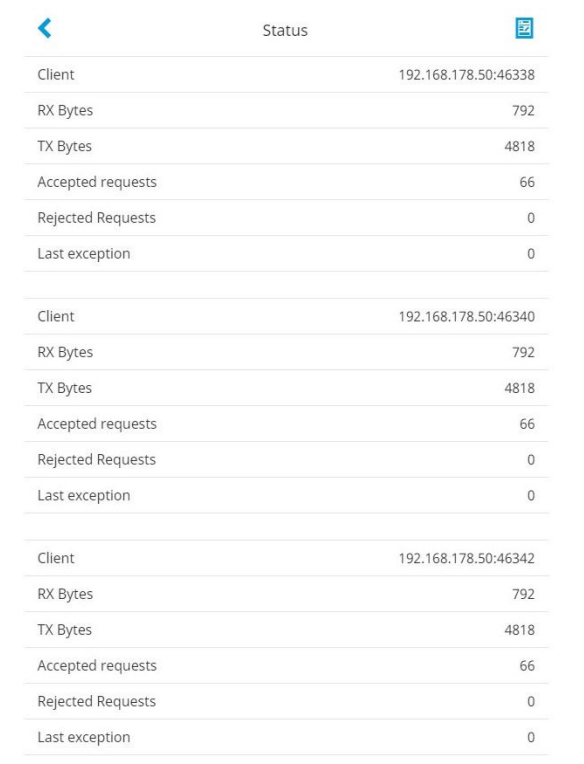
Stap	Beschrijving	Beeld																								
4	<p>Het Modbus TCP-menu toont het IP-adres van de controller. 10.130.33.99 is het IP-adres dat is ingesteld in het servicemenu van de controller.</p> <p>Stel Modbus TCP in op On (Aan) en druk vervolgens op Status.</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a menu icon, the 'MSM' logo, and a user profile icon. Below this is a back arrow and the title 'Modbus TCP'. The configuration items are: 'Modbus TCP' (set to 'On'), 'IP address' (set to '10.130.33.99'), 'TCP Port' (set to '502'), 'Telegram' (with a right arrow), 'Modbus address' (set to '1'), 'Virtual modbus slave' (set to 'Off'), 'Data order' (set to 'Normal' with a right arrow), 'Simulation' (with a right arrow), and 'Status' (with a right arrow). The 'On' status, the IP address, and the 'Status' button are circled in red.</p>																								
5	<p>Het menu Status toont de Modbus TCP-statistieken. 10.130.33.50 is het IP-adres van de RevPi-module. De RevPi heeft 5 Modbus TCP-master.</p>	 <p>The screenshot shows the 'Status' screen with three sections of statistics for different clients. Each section includes: Client IP, RX Bytes, TX Bytes, Accepted requests, Rejected Requests, and Last exception.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>10.130.33.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	10.130.33.50:46338	792	4818	66	0	0	10.130.33.50:46340	792	4818	66	0	0	10.130.33.50:46342	792	4818	66	0	0
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10.130.33.50:46340	792	4818	66	0	0																					
10.130.33.50:46342	792	4818	66	0	0																					

Hoofdstuk 6 Instellen van Modbus TCP-telegram voor SC1500-controller

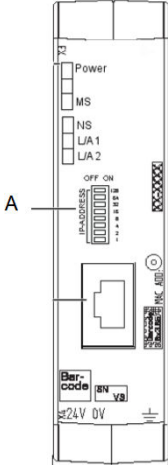
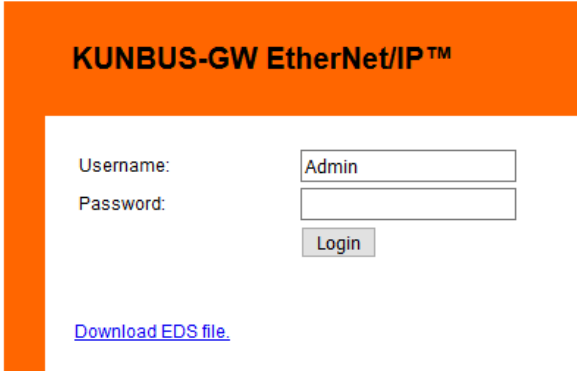
Start de Claros-toepassing en volg de stapsgewijze handleiding.

Stap	Beschrijving	Beeld
1	Selecteer het controllermenu en druk vervolgens op Modbus TCP .	
2	Selecteer Telegram om het Modbus TCP-telegram in te stellen.	

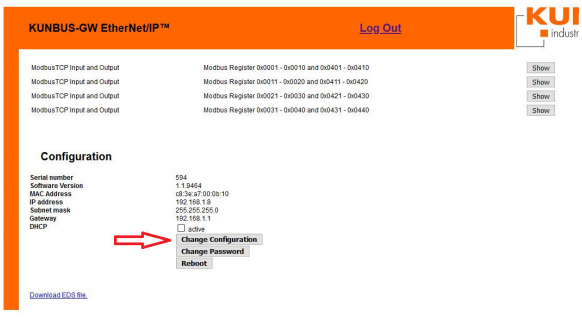

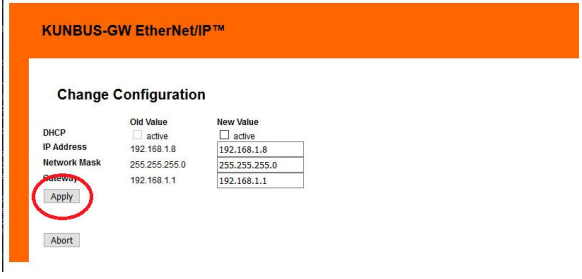
Stap	Beschrijving	Beeld
3	<p>Het getoonde telegram is een voorbeeld voor de LDO sc-sensor.</p> <p>Stel de hartslag in op hele getallen. De hartslag is een teller die de update van de waarde toont in stappen van één seconde.</p> <p>Opmerking: De inhoud van het Modbus TCP-telegram is gelijk aan die van het Profibus-telegram.</p>	<p>The image shows two screenshots of a configuration interface. The top screenshot is titled 'Telegram' and shows a list of devices with 'LDO 2009' and 'LDO sc'. It includes a '+ ADD SENSOR' button and a gear icon. The bottom screenshot is titled 'LDO 2009' and shows configuration options for '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer), along with a '+ ADD NEW TAG' button. Both screens have 'CANCEL' and 'SAVE'/'OK' buttons.</p>

Stap	Beschrijving	Beeld																								
4	<p>Het Modbus TCP-menu toont het IP-adres van de controller. 192.168.178.47 is het IP-adres dat is ingesteld in het servicemenu van de controller.</p> <p>Stel Modbus TCP in op On (Aan) en druk vervolgens op Status.</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a back arrow, the title 'Modbus TCP', and a help icon. Below are several settings: 'Modbus TCP' is set to 'On', 'IP address' is '192.168.178.47', 'TCP Port' is '502', 'Telegram' has a right arrow, 'Modbus address' is '1', 'Virtual modbus slave' is 'Off', 'Data order' is 'Normal', 'Simulation' has a right arrow, and 'Status' has a right arrow and is circled in red.</p>																								
5	<p>Het menu Status toont de Modbus TCP-statistieken. 192.168.178.50 is het IP-adres van de RevPi-module. De RevPi heeft 7 Modbus TCP-master.</p>	 <p>The screenshot shows the 'Status' screen with three sections of statistics for different clients. Each section lists: Client IP, RX Bytes, TX Bytes, Accepted requests, Rejected Requests, and Last exception.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>192.168.178.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	192.168.178.50:46338	792	4818	66	0	0	192.168.178.50:46340	792	4818	66	0	0	192.168.178.50:46342	792	4818	66	0	0
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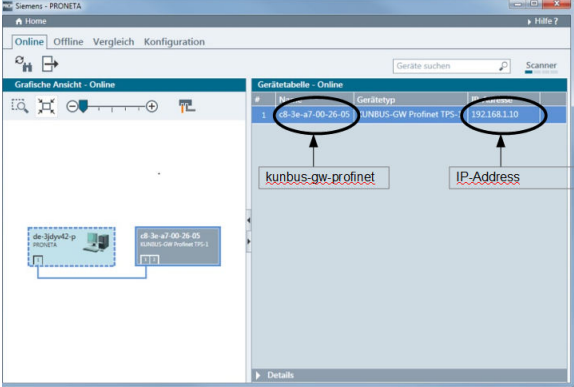
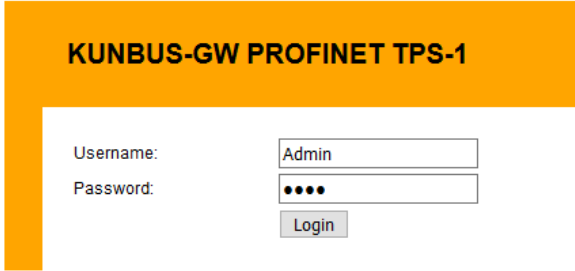
Hoofdstuk 7 De Ethernet/IP-gateway configureren

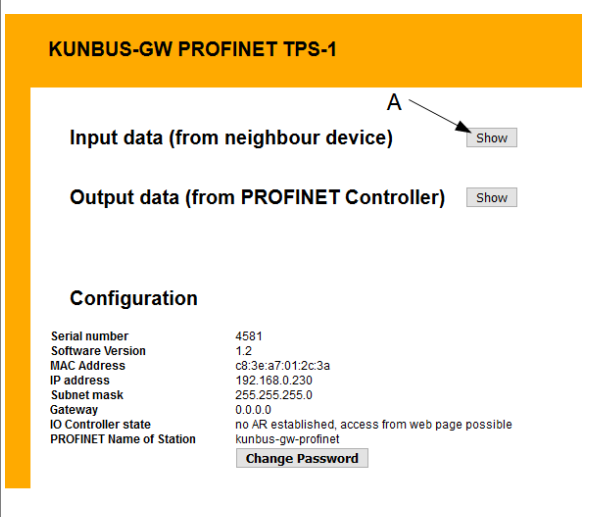
Stap	Beschrijving	Beeld
1	<ul style="list-style-type: none">Sluit de Ethernet/IP-gateway aan op de PC met de LAN-naar-USB-adapterkabel.Raadpleeg Inleiding op pagina 160. Gebruik de link van de GATEWAY Ethernet/IP-slave. Volg de instructies in de gebruikershandleiding van de fabrikant, <i>Gateway component for Ethernet/IP (Gateway-onderdeel voor EtherNet/IP)</i>.Gebruik de 8-pins adressschakelaar (A) om de host-id in te stellen op de binaire indeling van de gateway.<ul style="list-style-type: none">Voorbeeld: Stel de host in op 8: 00010000Open de website http://192.168.1.X (X=som van alle schakelaars die AAN zijn gezet).	 <p>The diagram shows the physical components of the gateway. At the top, there are labels for 'Power', 'MS', 'NS', 'LIA 1', and 'LIA 2'. Below these is an 8-pin address switch labeled 'A' and 'ADDRESS'. To the right of the switch is a small display or indicator labeled 'OFF ON'. Below the switch is a barcode and the text 'KUNBUS ETH. 401'. At the bottom, there is a 'Bar-Code' label with 'BN VA' and a '24V DV' power source symbol.</p>
2	<p>Open de browser en voer het IP-adres 192.168.1.X in. Inloggegevens voor de eerste aanmelding:</p> <p>Gebruiker: Admin Wachtwoord: 1701</p> <p>Druk op (Log in) Inloggen.</p>	 <p>The screenshot shows the login interface for the KUNBUS-GW EtherNet/IP gateway. The title is 'KUNBUS-GW EtherNet/IP™'. There are two input fields: 'Username:' with the value 'Admin' and 'Password:'. Below the password field is a 'Login' button. At the bottom, there is a link for 'Download EDS file.'</p>

Stap	Beschrijving	Beeld																																																																																					
3	<p>De controller en de Ethernet/IP-gateway verzenden het gegevensgebied 0000 - 01BF, dat een bereik van 448 byte of 112 float of 224 hele getallen is, of een combinatie hiervan, op basis van het telegramtype van de Modbus TCP in de controller.</p> <p>Opmerking: Alleen het eerste gegevensbereik tot 32 hele getallen wordt weergegeven. Bekijk alle gegevens in de PLC (224 hele getallen).</p> <p>Druk op Show (Weergeven).</p>																																																																																						
4	<p>Het geselecteerde gegevensgebied wordt weergegeven.</p>	<table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1 0x0001</td><td>0</td><td>Output 1 0x0401</td><td>0</td><td>Send</td></tr> <tr><td>Input 2 0x0002</td><td>0</td><td>Output 2 0x0402</td><td>0</td><td>Send</td></tr> <tr><td>Input 3 0x0003</td><td>0</td><td>Output 3 0x0403</td><td>0</td><td>Send</td></tr> <tr><td>Input 4 0x0004</td><td>0</td><td>Output 4 0x0404</td><td>0</td><td>Send</td></tr> <tr><td>Input 5 0x0005</td><td>0</td><td>Output 5 0x0405</td><td>0</td><td>Send</td></tr> <tr><td>Input 6 0x0006</td><td>0</td><td>Output 6 0x0406</td><td>0</td><td>Send</td></tr> <tr><td>Input 7 0x0007</td><td>0</td><td>Output 7 0x0407</td><td>0</td><td>Send</td></tr> <tr><td>Input 8 0x0008</td><td>0</td><td>Output 8 0x0408</td><td>0</td><td>Send</td></tr> <tr><td>Input 9 0x0009</td><td>0</td><td>Output 9 0x0409</td><td>0</td><td>Send</td></tr> <tr><td>Input 10 0x000a</td><td>0</td><td>Output 10 0x040a</td><td>0</td><td>Send</td></tr> <tr><td>Input 11 0x000b</td><td>0</td><td>Output 11 0x040b</td><td>0</td><td>Send</td></tr> <tr><td>Input 12 0x000c</td><td>0</td><td>Output 12 0x040c</td><td>0</td><td>Send</td></tr> <tr><td>Input 13 0x000d</td><td>0</td><td>Output 13 0x040d</td><td>0</td><td>Send</td></tr> <tr><td>Input 14 0x000e</td><td>0</td><td>Output 14 0x040e</td><td>0</td><td>Send</td></tr> <tr><td>Input 15 0x000f</td><td>0</td><td>Output 15 0x040f</td><td>0</td><td>Send</td></tr> <tr><td>Input 16 0x0010</td><td>0</td><td>Output 16 0x0410</td><td>0</td><td>Send</td></tr> </tbody> </table>	Address	Value				Input 1 0x0001	0	Output 1 0x0401	0	Send	Input 2 0x0002	0	Output 2 0x0402	0	Send	Input 3 0x0003	0	Output 3 0x0403	0	Send	Input 4 0x0004	0	Output 4 0x0404	0	Send	Input 5 0x0005	0	Output 5 0x0405	0	Send	Input 6 0x0006	0	Output 6 0x0406	0	Send	Input 7 0x0007	0	Output 7 0x0407	0	Send	Input 8 0x0008	0	Output 8 0x0408	0	Send	Input 9 0x0009	0	Output 9 0x0409	0	Send	Input 10 0x000a	0	Output 10 0x040a	0	Send	Input 11 0x000b	0	Output 11 0x040b	0	Send	Input 12 0x000c	0	Output 12 0x040c	0	Send	Input 13 0x000d	0	Output 13 0x040d	0	Send	Input 14 0x000e	0	Output 14 0x040e	0	Send	Input 15 0x000f	0	Output 15 0x040f	0	Send	Input 16 0x0010	0	Output 16 0x0410	0	Send
Address	Value																																																																																						
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Input 2 0x0002	0	Output 2 0x0402	0	Send																																																																																			
Input 3 0x0003	0	Output 3 0x0403	0	Send																																																																																			
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Input 12 0x000c	0	Output 12 0x040c	0	Send																																																																																			
Input 13 0x000d	0	Output 13 0x040d	0	Send																																																																																			
Input 14 0x000e	0	Output 14 0x040e	0	Send																																																																																			
Input 15 0x000f	0	Output 15 0x040f	0	Send																																																																																			
Input 16 0x0010	0	Output 16 0x0410	0	Send																																																																																			

Stap	Beschrijving	Beeld															
5	<p>Druk op Change Configuration (Configuratie wijzigen) om het IP-adres in te stellen.</p>	 <p>KUNBUS-GW EtherNet/IP™ Log Out </p> <p>ModbusTCP Input and Output Modbus Register 0x0011 - 0x0010 and 0x0421 - 0x0410 Show</p> <p>ModbusTCP Input and Output Modbus Register 0x0011 - 0x0020 and 0x0411 - 0x0420 Show</p> <p>ModbusTCP Input and Output Modbus Register 0x0021 - 0x0030 and 0x0421 - 0x0430 Show</p> <p>ModbusTCP Input and Output Modbus Register 0x0031 - 0x0040 and 0x0431 - 0x0440 Show</p> <p>Configuration</p> <p>Serial Number 594</p> <p>Software Version 1.1.0464</p> <p>MAC Address 62:34:37:00:00:10</p> <p>IP Address 192.168.1.8</p> <p>Subnet mask 255.255.255.0</p> <p>Gateway 192.168.1.1</p> <p>DHCP <input type="checkbox"/> active</p> <p style="text-align: right;"> <input type="button" value="Change Configuration"/> <input type="button" value="Change Password"/> <input type="button" value="Reboot"/> </p> <p>Download EDS file</p>															
6	<p>Wijzig het IP-adres in overeenstemming met het gateway-adres.</p> <p>Druk op Apply (Toepassen) om te bevestigen.</p> <p>Zet alle DIP-schakelaars op uit.</p> <p>Schakel de gateway uit en start opnieuw op. Het nieuwe IP-adres wordt nu gebruikt.</p>	 <p>KUNBUS-GW EtherNet/IP™</p> <p>Change Configuration</p> <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td><input checked="" type="checkbox"/> active</td> <td><input type="checkbox"/> active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table> <p><input type="button" value="Apply"/> <input type="button" value="Abort"/></p>		Old Value	New Value	DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0	Gateway	192.168.1.1	192.168.1.1
	Old Value	New Value															
DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active															
IP Address	192.168.1.8	192.168.1.8															
Network Mask	255.255.255.0	255.255.255.0															
Gateway	192.168.1.1	192.168.1.1															

Hoofdstuk 8 De Profinet-gateway configureren

Stap	Beschrijving	Beeld
1	<ul style="list-style-type: none"> • Sluit de Profinet-gateway aan op de PC met de LAN-naar-LAN-adapter. • Raadpleeg Inleiding op pagina 160. Gebruik de link van de GATEWAY Profinet IRT-slave. Volg de instructies in de gebruikershandleiding van de fabrikant, <i>Gateway Component for PROFINET (Gateway-onderdeel voor PROFINET)</i>. • Gebruik de PRONETA-software om de naam in te stellen op kunbus-gw-profinet. • Voer het gebruikte IP-adres in. 	
2	<p>Open de browser en voer het IP-adres in. Inloggegevens voor de eerste aanmelding: Gebruiker: Admin Wachtwoord: 1701 Druk op (Log in) Inloggen.</p>	

Stap	Beschrijving	Beeld																
3	Druk op Show (Tonen) (A) om de invoergegevens weer te geven.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
Serial number	4581																	
Software Version	1.2																	
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4	<p>Toont alle gegevens die vanaf de controller naar de Profinet-gateway zijn verzonden.</p> <p>De controller en de Profinet-gateway verzenden het gegevensgebied 0000 - 01BF, dat een bereik van 448 byte of 112 float of 224 hele getallen is, of een combinatie hiervan, op basis van het telegramtype van de Modbus TCP in de controller.</p>	<div style="background-color: #FFA500; padding: 5px; text-align: center;">KUNBUS-GW PROFINET TPS-1</div> <div style="text-align: center; margin-top: 10px;">Input (from neighbour device)</div> <div style="margin-top: 10px;"> Main page </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Address</th> <th>0</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0010</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0020</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0030</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Hoofdstuk 9 Problemen oplossen

9.1 Problemen met RevPi oplossen

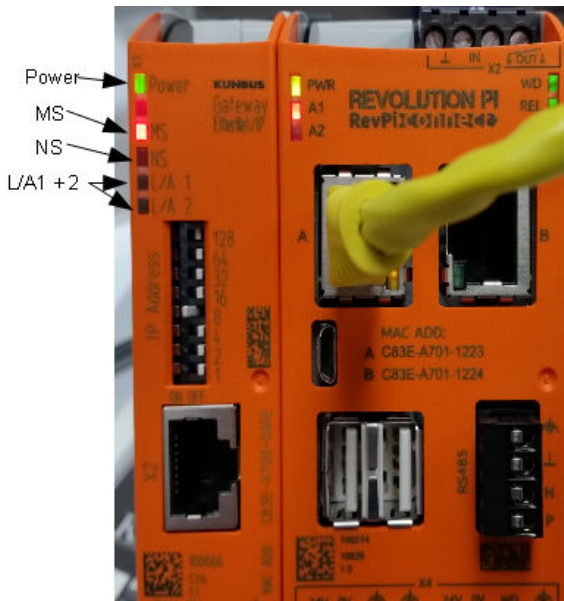
Afbeelding 4 RevPi-basismodule



Bericht	Beschrijving	Oplossing
LED A2 knippert rood.	De communicatie is gestopt.	<ul style="list-style-type: none">• Sluit de netwerkkabel (kabel of router) aan.• Stel het Modbus-adres in Claros in op 1.• Stel het Modbus TCP in het Claros-menu in op aan.
LED A3 knippert langzaam rood.	De configuratie van de Ethernet/IP- en Profinet-gateway loopt door elkaar.	Raadpleeg De USB-configuratie starten op pagina 162, stap 4 en selecteer het juiste type gateway: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Problemen met Ethernet/IP oplossen

Afbeelding 5 Ethernet/IP-gateway

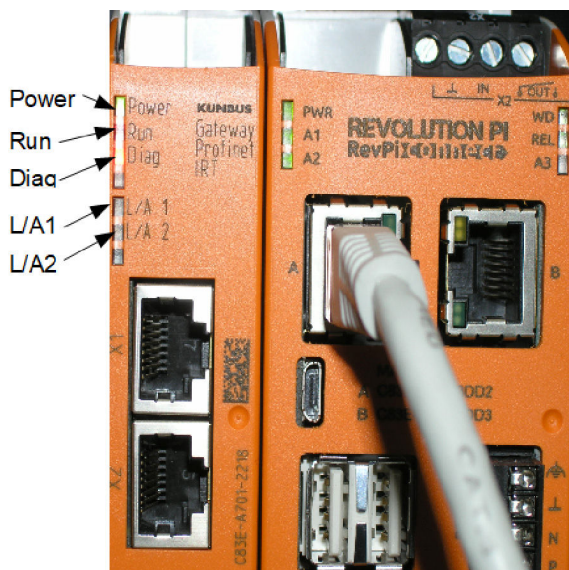


Bericht	Beschrijving	Oplossing
De voedings-LED is uit.	De Ethernet/IP-gateway is uitgeschakeld.	Schakel de stroom in.
De voedings-LED knippert groen.	De opstartprocedure is niet voltooid.	Wacht enkele minuten.
De voedings-LED knippert rood.	Geeft een waarschuwing weer.	Controleer of alle apparaten zijn aangesloten.
De voedings-LED brandt rood.	Geeft een fout weer.	De Ethernet/IP-gateway is defect. Vervang de Ethernet/IP-gateway.
De MS-LED is uit.	De Ethernet/IP-gateway is uitgeschakeld.	Schakel de stroom in.
De MS-LED knippert groen.	De configuratieprocedure is niet voltooid.	Wacht enkele minuten.
De MS-LED knippert rood.	Geeft een configuratiefout weer.	Raadpleeg De Ethernet/IP-gateway configureren op pagina 172 om de configuratie te onderzoeken.
De MS-LED brandt rood.	Geeft een fout weer.	De Ethernet/IP-gateway is defect. Vervang de Ethernet/IP-gateway.
De MS-LED knippert rood en groen.	De zelftest is niet voltooid.	Wacht enkele minuten.

Bericht	Beschrijving	Oplossing
De NS-LED is uit.	De Ethernet/IP-gateway is uitgeschakeld of heeft geen IP-adres.	Schakel de stroom in. Stel het IP-adres in.
De NS-LED knippert groen.	Het IP-adres is ingesteld, maar de CIP-verbinding is niet tot stand gebracht.	Wacht enkele minuten.
De NS-LED knippert rood.	De CIP-verbinding is verbroken.	Controleer of er een time-out is.
De NS-LED brandt rood.	Het geselecteerde IP-adres wordt gebruikt door een ander apparaat.	Wijzig het IP-adres in een uniek IP-adres.
L/A 1 of 2 LED is uit.	Er is geen verbinding met andere apparaten.	Sluit een apparaat aan.
L/A 1 of 2 LED knippert groen.	Geen gegevensuitwisseling.	Wacht tot de volgende gegevensuitwisseling.

9.3 Problemen met Profinet oplossen

Afbeelding 6 Profinet-gateway



Bericht	Beschrijving	Oplossing
De voedings-LED is uit.	De Profinet-gateway is uitgeschakeld.	Schakel de stroom in.
De voedings-LED knippert groen.	De opstartprocedure is niet voltooid.	Wacht enkele minuten.
De voedings-LED knippert rood.	Geeft een waarschuwing weer.	Controleer of alle apparaten zijn geïnstalleerd.

Bericht	Beschrijving	Oplossing
De voedings-LED brandt rood.	Geeft een fout weer.	De Profinet-gateway is defect. Vervang de Profinet-gateway.
De run-LED is uit.	Geen verbinding met een netwerk.	Maak verbinding met het netwerk.
De run-LED knippert groen.	De Profinet-controller is aangesloten, maar er is geen gegevensuitwisseling.	Wacht tot de volgende gegevensuitwisseling.
De run-LED knippert langzaam groen.	Geactiveerd door hulpmiddel voor identificatie van het gatewayonderdeel.	Wacht enkele minuten.
De diag-LED knippert rood.	Geactiveerd door hulpmiddel voor identificatie van het gatewayonderdeel.	Wacht enkele minuten.
De diag-LED knippert snel rood.	Geen verbinding met de controller. Geen Profinet-naam ingesteld in de module.	Raadpleeg De Profinet-gateway configureren op pagina 175 om de naam in te stellen.
De diag-LED brandt rood.	Een Gateway-apparaat rapporteert diagnosegegevens.	Raadpleeg het diagnose rapport.
L/A 1 of 2 LED is uit.	Geen verbinding met een netwerk.	Maak verbinding met het netwerk.
L/A 1 of 2 LED knippert groen.	Gegevensuitwisseling.	Wacht tot de gegevensuitwisseling is voltooid.

Съдържание

- | | | | |
|---|---|---|--|
| 1 | Предназначение на страница 182 | 6 | Настройка на телеграма на Modbus TCP на контролер SC1500 на страница 191 |
| 2 | Въведение на страница 182 | 7 | Конфигуриране на Ethernet/IP шлюза на страница 194 |
| 3 | Стартирайте конфигурацията с USB на страница 184 | 8 | Конфигуриране на Profinet шлюза на страница 197 |
| 4 | Примери за инсталация на страница 186 | 9 | Отстраняване на повреди на страница 200 |
| 5 | Настройка на телеграма на Modbus TCP на контролер SC4200c на страница 188 | | |

Раздел 1 Предназначение

Тези инструкции за настройка са предназначени за използване от лица, които интегрират външен Ethernet/IP шлюз или Profinet шлюз като хардуерни компоненти в мрежата Claros.

Раздел 2 Въведение

Производителят не носи отговорност за никакви повреди, възникнали в резултат на погрешно приложение или използване на този продукт, включително, без ограничения, преки, случайни или възникнали впоследствие щети, и се отхвърля всяка отговорност към такива щети в пълната позволена степен от действащото законодателство. Потребителят носи пълна отговорност за установяване на критични за приложението рискове и монтаж на подходящите механизми за подsigуряване на процесите по време на възможна неизправност на оборудването.

▲ ОПАСНОСТ



Опасност от токов удар по потребителя. Винаги изключвайте захранването на инструмента преди изграждане на електрически връзки.

Елементи за осигуряване:

- USB памет, форматирана като FAT32
- Компютър с Windows¹ 10
- Модул:
 - За Ethernet/IP внедряване:
 - LXZ446.99.00001: GATEWAY IloT RevPi основен модул
 - LXZ446.99.00002: GATEWAY Ethernet/IP подчинен възел
 - LXZ446.99.00003: джъмпер за PiBridge
 - За Profinet внедряване:
 - LXZ446.99.00001: GATEWAY IloT RevPi основен модул
 - LXZ446.99.00007: GATEWAY Profinet IRT подчинен възел
 - LXZ446.99.00003: джъмпер за PiBridge

Свързва трите модула – RevPi, подчинен възел и PiBridge, към захранването и LAN. Направете справка с връзките в таблицата, която следва, за повече информация от производителя на модулите.

¹ Microsoft® Windows® е регистрирана търговска марка на Microsoft Corporation в Съединените щати и други държави.

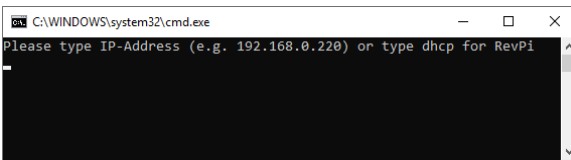
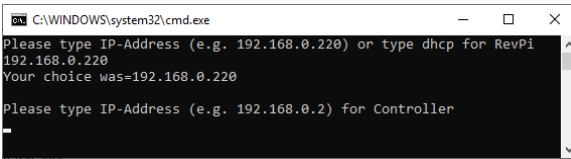
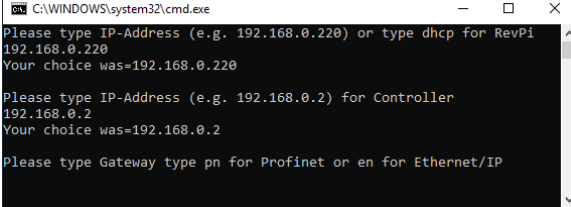
Модул	Връзка
GATEWAY Profinet IRT подчинен възел	https://www.kunbus.com/profinet-irt-gateway-module.html
GATEWAY Ethernet/IP подчинен възел	https://www.kunbus.com/ethernet-ip-gateway-module.html
GATEWAY IIoT RevPi основен модул	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
Как се свързват RevPi модули	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Как се инсталират RevPi модули на DIN шина	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Как се свързва електрозахранването	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

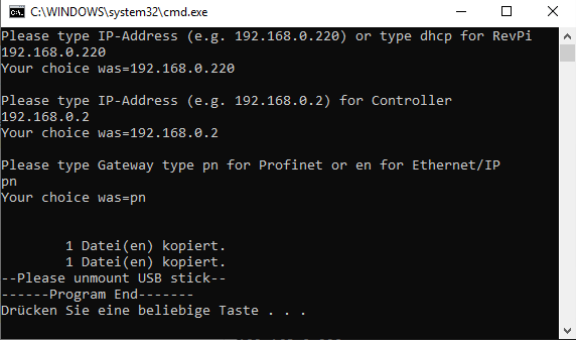

Подгответе USB паметта

1. Вкарайте празна USB памет в компютъра.
2. Преинетете към <https://www.hach.com> и търсете за ключовите думи „usb ethernet/IP installation“ или „usb profinet installation“.
3. Изтеглете USB_ETHIP_PRNET.zip.
4. Разархивирайте файла в основната директория на USB паметта.

Раздел 3 Стартирайте конфигурацията с USB

Вкарайте подготвената USB памет в компютъра.

Стъпка	Описание	Илюстрация
1	Стартирайте start_usb_config.bat. Отваря се терминален прозорец. Следвайте ръководството стъпка по стъпка.	
2	Въведете IP адреса на RevPi модула.	
3	Въведете IP адреса на контролера SC. Уверете се, че представката за Network (Мрежа) е същата, както от RevPi модула (напр. 192.168.0). Уверете се, че идентификаторът на хоста е различен спрямо RevPi модула (напр. 220 RevPi, 2 контролер).	
4	Въведете типа на шлюза: <ul style="list-style-type: none">• pn—Profinet• en—Ethernet/IP	

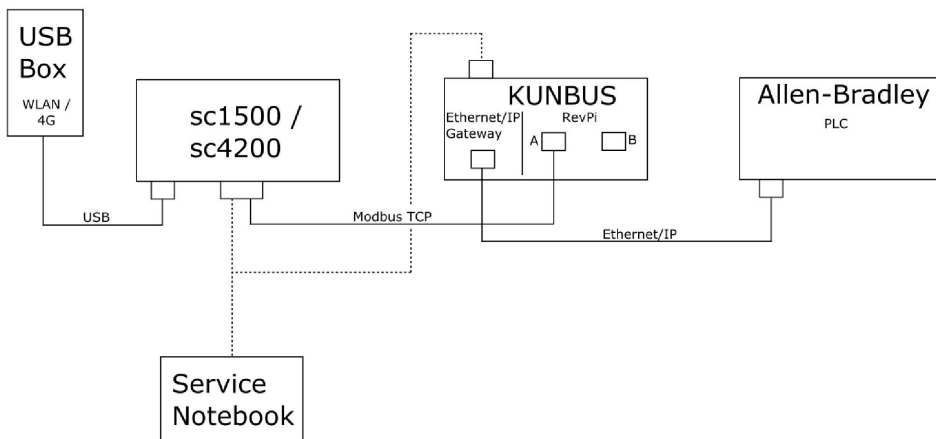
Стъпка	Описание	Илюстрация
5	<p>Потвърдете настройките с Enter. Извадете USB паметта.</p>	
6	<p>Поставете USB паметта в лявото USB гнездо на RevPi модула.</p>	

Стъпка	Описание	Илюстрация
7	<p>Описание на светодиодите:</p> <ul style="list-style-type: none"> • A1/A2 оранжев: започва инсталирането на RevPi. • A1 червено, A2 изключено: вкарайте USB памет в RevPi. • A1 зелено, A2 изключено: USB памет вкарана успешно. • A1 изключено, A2 зелено: RevPi тегли/качва данни от USB памет. • A3 червено: RevPi се рестартира. <p>Когато A3 е червено, извадете USB паметта.</p>	
8	<p>Настройките на RevPi са завършени.</p>	

Раздел 4 Примери за инсталация

Фигура 1 показва инсталация с две различни LAN връзки.

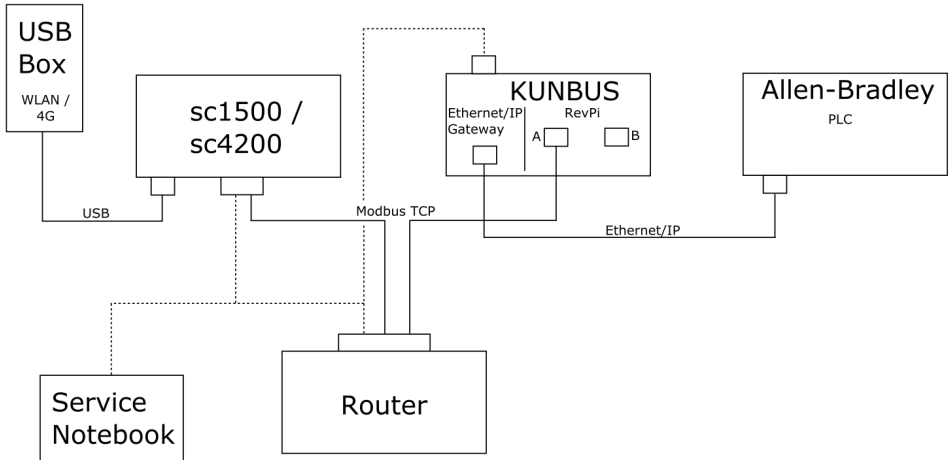
Фигура 1 Пример 1



- Modbus TCP и Ethernet/IP използват две различни LAN връзки.
- Всички устройства имат статичен IP адрес.
- Контролерът има достъп до интернет с WiFi или клетъчна връзка.
- Необходим е лаптоп, за да се настройат IP адресите на контролера и Ethernet/IP шлюзът.

Фигура 2 показва инсталация с рутер за връзката Modbus TCP.

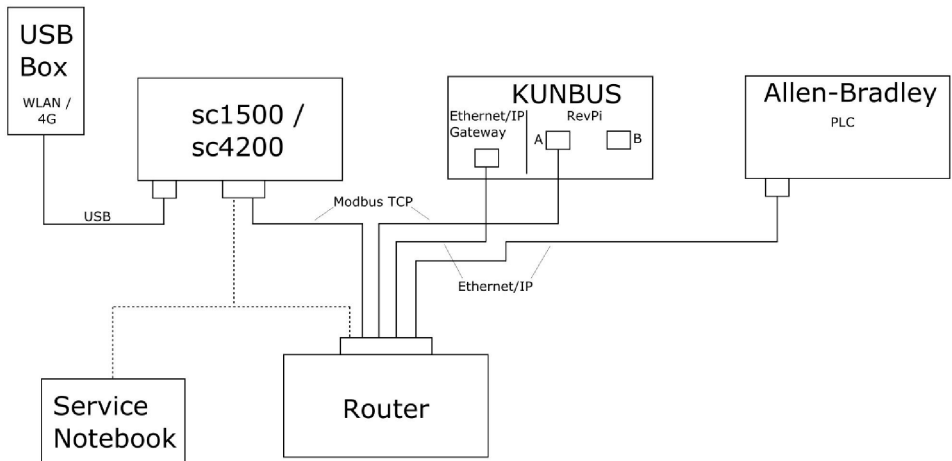
Фигура 2 Пример 2



- Modbus TCP е свързан към рутер.
- Всички устройства имат статичен IP адрес или рутерът задава IP адреса чрез DHCP.
Забележка: Уверете се, че рутерът винаги използва същия IP адрес за същите устройства (MAC), ако се използва DHCP.
- Контролерът има достъп до интернет с WiFi или клетъчна връзка.
- Необходим е лаптоп, за да се настроят IP адресът на контролера, Ethernet/IP шлюзът и настройките на рутера.

Фигура 3 показва инсталация с рутер или комутатор за всички устройства.

Фигура 3 Пример 3

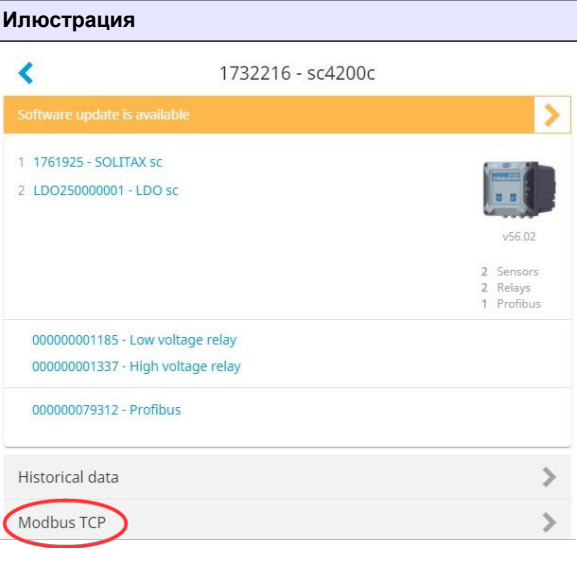
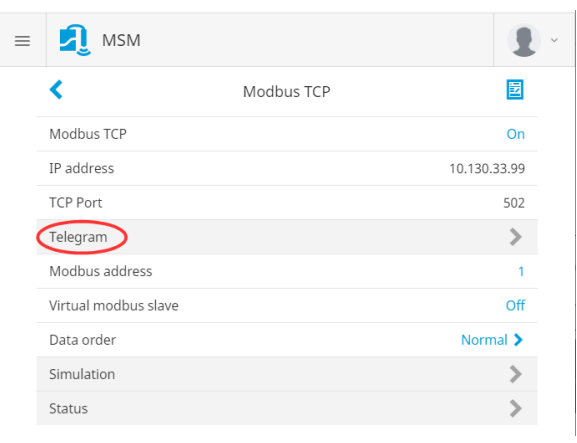


- Всички устройства са свързани с рутер или комутатор.

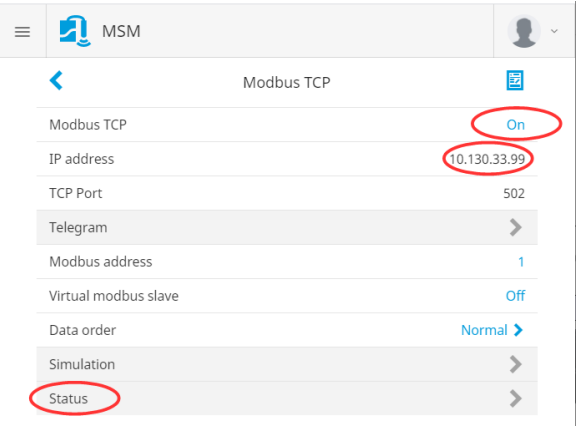

- Всички устройства имат статичен IP адрес или рутерът или комутаторът задава IP адреса чрез DHCP.
Забележка: Уверете се, че рутерът винаги използва същия IP адрес за същите устройства (MAC), ако се използва DHCP.
- Контролерът има достъп до интернет с WiFi или клетъчна връзка.
- Необходим е лаптоп, за да се настроят IP адресът на контролера и настройките на рутера.

Раздел 5 Настройка на телеграма на Modbus TCP на контролер SC4200c

Стартирайте приложението Claros и следвайте ръководството стъпка по стъпка.

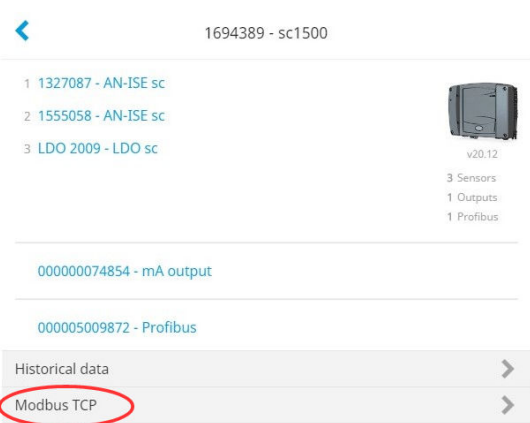
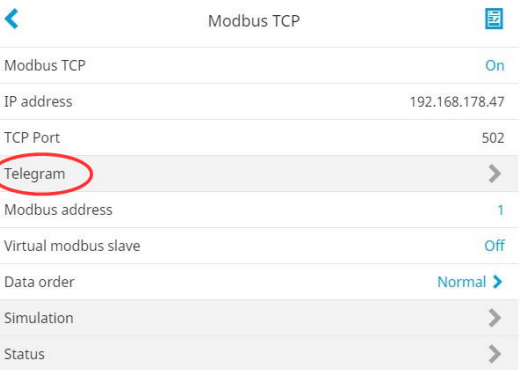
Стъпка	Описание	Илюстрация
1	Изберете менюто на контролера, след това натиснете Modbus TCP .	 <p>The screenshot shows the main interface of the Claros application for device 1732216 - sc4200c. At the top, there is a notification for a software update. Below, a list of devices is shown: 1 1761925 - SOLITAX sc, 2 LDO250000001 - LDO sc, and a small image of the SC4200c device with its specifications (v56.02, 2 Sensors, 2 Relays, 1 Profibus). Further down, there are options for '000000001185 - Low voltage relay', '00000001337 - High voltage relay', and '00000079312 - Profibus'. At the bottom, there are two menu items: 'Historical data' and 'Modbus TCP', with the latter circled in red.</p>
2	Изберете Telegram (Телеграма) , за да зададете телеграмата на Modbus TCP.	 <p>The screenshot shows the configuration screen for 'Modbus TCP' in the MSM application. The screen displays various settings: 'Modbus TCP' is turned 'On', 'IP address' is 10.130.33.99, 'TCP Port' is 502, 'Telegram' is circled in red, 'Modbus address' is 1, 'Virtual modbus slave' is 'Off', and 'Data order' is 'Normal'. At the bottom, there are options for 'Simulation' and 'Status', both with right-pointing arrows.</p>

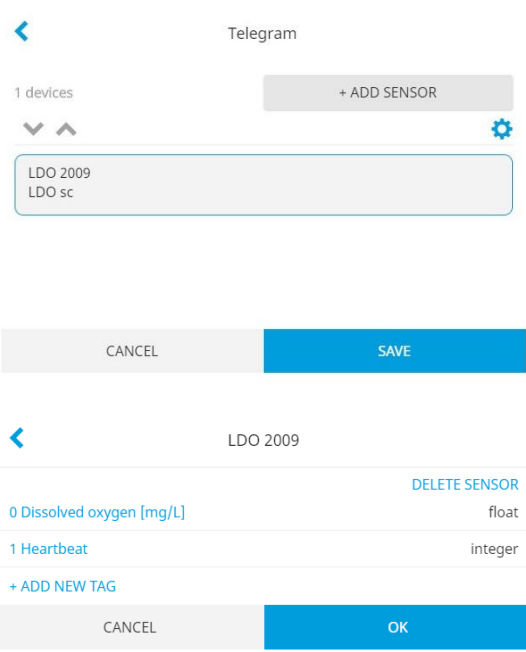
Стъпка	Описание	Илюстрация
3	<p>Показаната телеграма е пример за сензор LDO sc.</p> <p>Задайте Heartbeat (Пулс) на цяло число. Пулсът е брояч, който показва актуализацията на стойността с нараствания от една секунда.</p> <p><i>Забележка: Съдържанието на телеграмата на Modbus TCP е същото като на телеграмата на Profibus.</i></p>	<p>The illustration consists of two screenshots from the MSM (Modbus Slave Manager) interface. The top screenshot shows the 'Telegram' configuration screen. It features a header with the MSM logo and a user profile icon. Below the header, there is a back arrow, the title 'Telegram', and a '1 devices' section with a '+ ADD SENSOR' button. A list of devices is shown, with 'LDO250000001 LDO sc' selected. At the bottom, there are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the configuration screen for the selected device 'LDO250000001'. It has a header with the MSM logo and a user profile icon. Below the header, there is a back arrow, the device name 'LDO250000001', and a 'DELETE SENSOR' button. The main area lists two tags: '0 Dissolved oxygen [mg/L]' with a 'float' data type, and '1 Heartbeat' with an 'integer' data type. There is also a '+ ADD NEW TAG' button. At the bottom, there are 'CANCEL' and 'OK' buttons.</p>

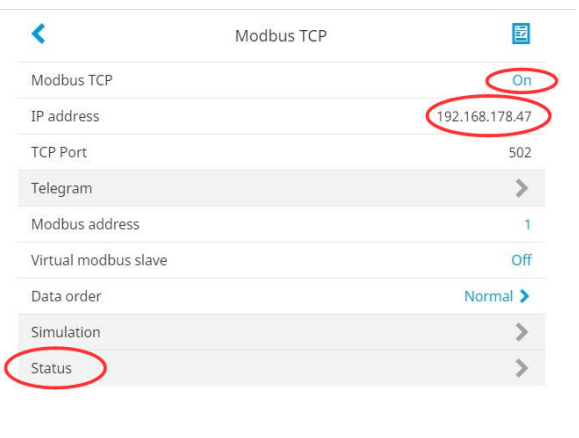
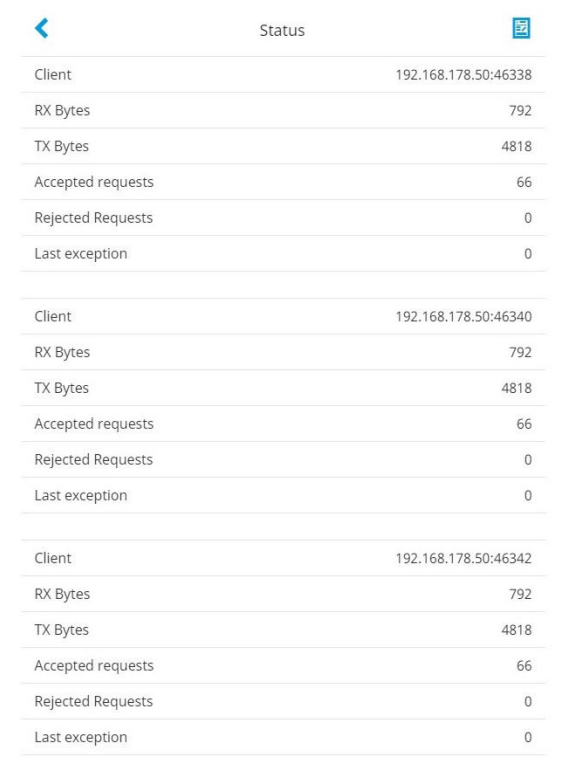
Стъпка	Описание	Илюстрация
4	<p>Менюто на Modbus TCP показва IP адреса на контролера. 10.130.33.99 е IP адресът, зададен в сервисното меню на контролера.</p> <p>Задайте Modbus TCP на On (Вкл.), след това натиснете Status (Състояние).</p>	
5	<p>В менюто Status (Състояние) се показва статистиката на Modbus TCP. 10.130.33.50 е IP адресът на RevPi модула. RevPi има 5 Modbus TCP водещи възела.</p>	

Раздел 6 Настройка на телеграма на Modbus TCP на контролер SC1500

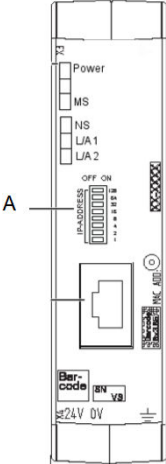
Стартирайте приложението Claros и следвайте ръководството стъпка по стъпка.

Стъпка	Описание	Илюстрация
1	Изберете менюто на контролера, след това натиснете Modbus TCP .	
2	Изберете Telegram (Телеграма) , за да зададете телеграмата на Modbus TCP.	

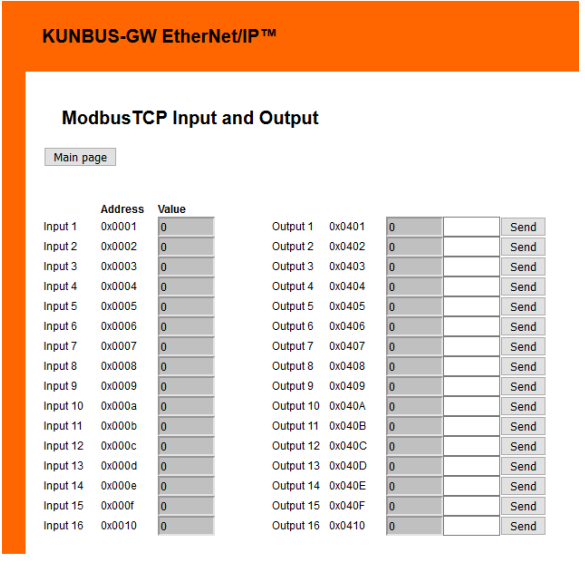
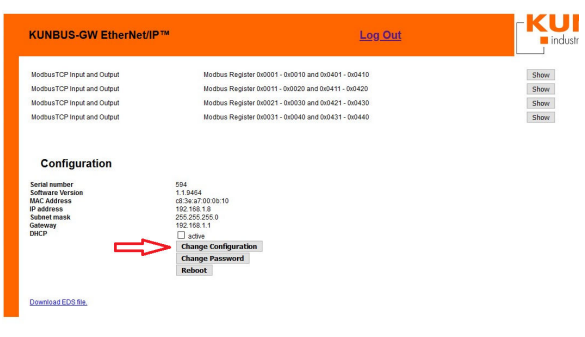
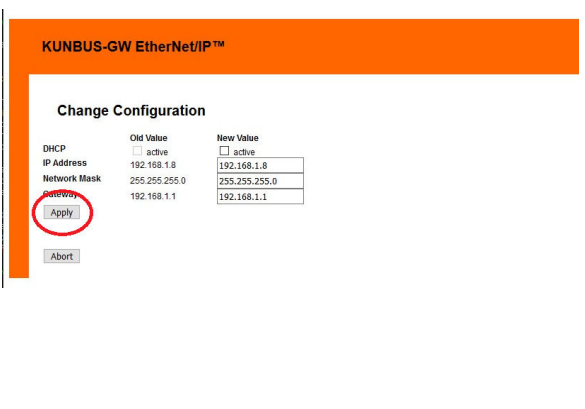
Стъпка	Описание	Илюстрация
3	<p>Показаната телеграма е пример за сензор LDO sc.</p> <p>Задайте Heartbeat (Пулс) на цяло число. Пулсът е брояч, който показва актуализацията на стойността с нараствания от една секунда.</p> <p><i>Забележка: Съдържанието на телеграмата на Modbus TCP е същото като на телеграмата на Profibus.</i></p>	 <p>The illustration shows two screenshots of a configuration interface. The top screenshot is titled 'Telegram' and shows a list of devices with 'LDO 2009' and 'LDO sc' selected. A '+ ADD SENSOR' button is visible. The bottom screenshot is titled 'LDO 2009' and shows configuration options for '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer). A '+ ADD NEW TAG' button is also present. Both screenshots have 'CANCEL' and 'SAVE'/'OK' buttons at the bottom.</p>

Стъпка	Описание	Илюстрация																								
4	<p>Менюто на Modbus TCP показва IP адреса на контролера. 192.168.178.47 е IP адресът, зададен в сервисното меню на контролера.</p> <p>Задайте Modbus TCP на Он (Вкл.), след това натиснете Status (Състояние).</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. The 'Modbus TCP' toggle is set to 'On'. The 'IP address' is '192.168.178.47'. The 'Status' option is highlighted with a red circle.</p>																								
5	<p>В менюто Status (Състояние) се показва статистиката на Modbus TCP. 192.168.178.50 е IP адресът на RevPi модула. RevPi има 7 Modbus TCP водещи възела.</p>	 <p>The screenshot shows the 'Status' menu with statistics for three clients. The first client is 192.168.178.50:46338, the second is 192.168.178.50:46340, and the third is 192.168.178.50:46342.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>192.168.178.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	192.168.178.50:46338	792	4818	66	0	0	192.168.178.50:46340	792	4818	66	0	0	192.168.178.50:46342	792	4818	66	0	0
Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception																					
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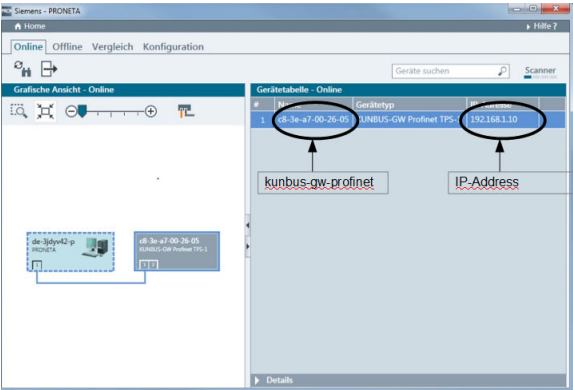
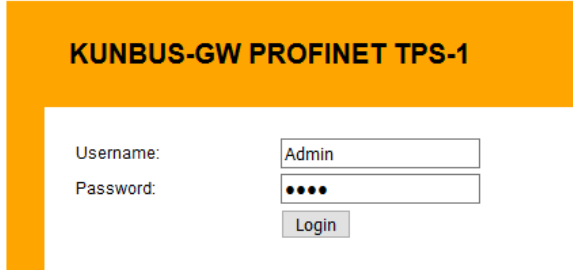
Раздел 7 Конфигуриране на Ethernet/IP шлюза

Стъпка	Описание	Илюстрация
1	<ul style="list-style-type: none">Свържете Ethernet/IP шлюза към компютъра с кабел на адаптер LAN към USB.Направете справка с Въведение на страница 182. Използвайте връзката на GATEWAY Ethernet/IP подчинения възел. Следвайте инструкцията в ръководството на потребителя от производителя, <i>Компонент на шлюз за EtherNet/IP</i>.Използвайте комутатор за адрес с 8 извода (A), за да зададете идентификатора на хоста на двоичния формат на шлюза.<ul style="list-style-type: none">Пример: задайте хоста на 8: 00010000Отворете уебсайта http://192.168.1.X (X = сума от всички комутатори, зададени на ON (ВКЛ.).	

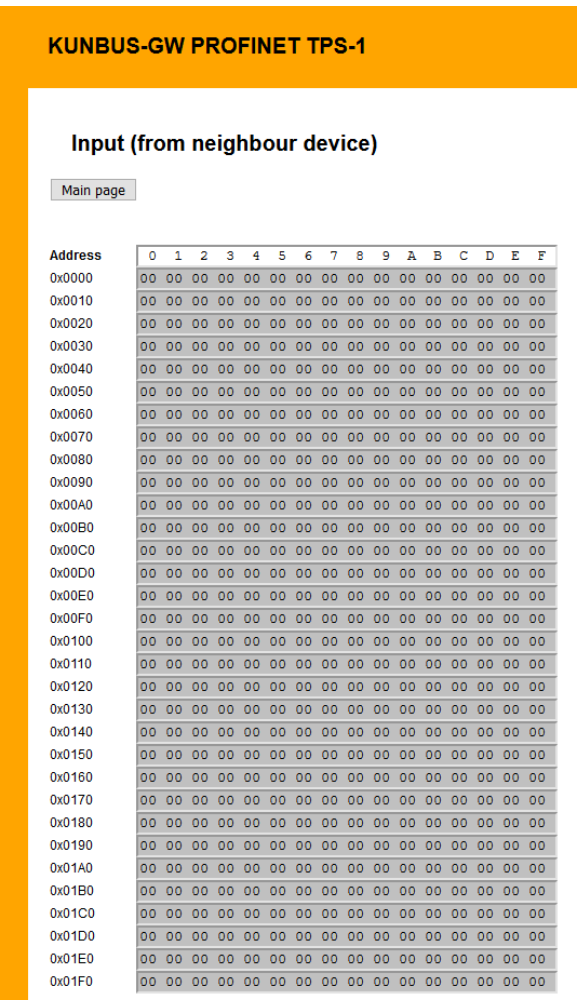
Стъпка	Описание	Илюстрация
2	<p>Отворете браузъра и въведете IP адреса 192.168.1.X. Данни за влизане за първото влизане: Потребител: Admin Парола: 1701 Натиснете Login (Вход).</p>	
3	<p>Контролерът и Ethernet/IP шлюзът прехвърлят зоната с данни 0000 - 01BF, което е диапазон от 448 байта или 112 с плаваща запетайка или 224 цяло число или комбинация от тях, на базата на типа Modbus TCP в контролера. Забележка: Показва се само първият диапазон от данни до 32 цяло число. Прегледайте всички данни в програмируемия логически контролер (PLC) (224 цяло число). Натиснете Show (Показване).</p>	

Стъпка	Описание	Илюстрация
4	Показва се избраната зона с данни.	
5	Натиснете Change Configuration (Промяна на конфигурацията), за да зададете IP адреса.	
6	Променете IP адреса според адреса на шлюза. Натиснете Apply (Прилагане), за да потвърдите. Задайте всички двупозиционни (dip) комутатори на изключено положение. Задайте захранването на шлюза на изключено, след това рестартирайте. Вече се използва новият IP адрес.	

Раздел 8 Конфигуриране на Profinet шлюза

Стъпка	Описание	Илюстрация
1	<ul style="list-style-type: none"> • Свържете Profinet шлюза към компютъра с кабел на адаптер LAN към LAN. • Направете справка с Въведение на страница 182. Използвайте връзката на GATEWAY Profinet IRT подчинен възел. Следвайте инструкцията в ръководството на потребителя от производителя, <i>Компонент на шлюз за PROFINET</i>. • Използвайте софтуера PRONETA, за да зададете името на kunbus-gw-profinet. • Въведете използвания IP адрес. 	
2	<p>Отворете браузъра и въведете IP адреса. Данни за влизане за първо влизане:</p> <p>Потребител: Admin Парола: 1701</p> <p>Натиснете Login (Вход).</p>	

Стъпка	Описание	Илюстрация																
3	Натиснете Show (Показване) (A) , за да покажете въведените данни.	<p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
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MAC Address	c8:3e:a7:01:2c:3a																	
IP address	192.168.0.230																	
Subnet mask	255.255.255.0																	
Gateway	0.0.0.0																	
IO Controller state	no AR established, access from web page possible																	
PROFINET Name of Station	kunbus-gw-profinet																	

Стъпка	Описание	Илюстрация																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
4	<p>Показва всички данни, изпратени от контролера към Profinet шлюза.</p> <p>Контролерът и Profinet шлюзът прехвърлят зоната с данни 0000 - 01BF, което е диапазон от 448 байта или 112 с плаваща запетайка или 224 цяло число или комбинация от тях, на базата на типа Modbus TCP в контролера.</p>	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input (from neighbour device)</p> <p>Main page</p> <table border="1"> <thead> <tr> <th>Address</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0010</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0020</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0030</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0040</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0050</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0060</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0070</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0080</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0090</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x00A0</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x00B0</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x00C0</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x00D0</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x00E0</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x00F0</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0100</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0110</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0120</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0130</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0140</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Раздел 9 Отстраняване на повреди

9.1 Отстраняване на неизправности на RevPi

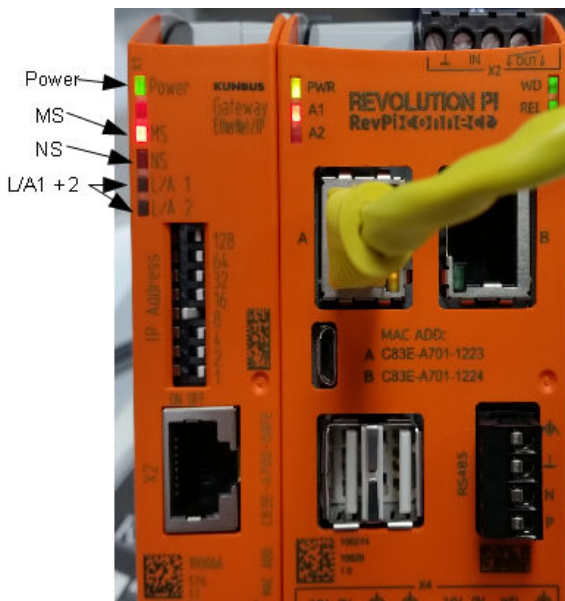
Фигура 4 RevPi основен модул



Съобщение	Описание	Решение
Светодиодът за A2 мига в червено.	Комуникацията е спряла.	<ul style="list-style-type: none">• Свържете мрежовия кабел (кабел или рутер).• Задайте настройката на адрес на Modbus в Claros на 1.• Задайте Modbus TCP в менюто на Claros на включено.
Светодиодът за A3 мига бавно в червено.	Конфигурацията на Ethernet/IP и Profinet шлюза е грешна.	Направете справка с Стартирайте конфигурацията с USB на страница 184, стъпка 4, и изберете правилния тип шлюз: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Отстраняване на неизправности на Ethernet/IP

Фигура 5 Ethernet/IP шлюз

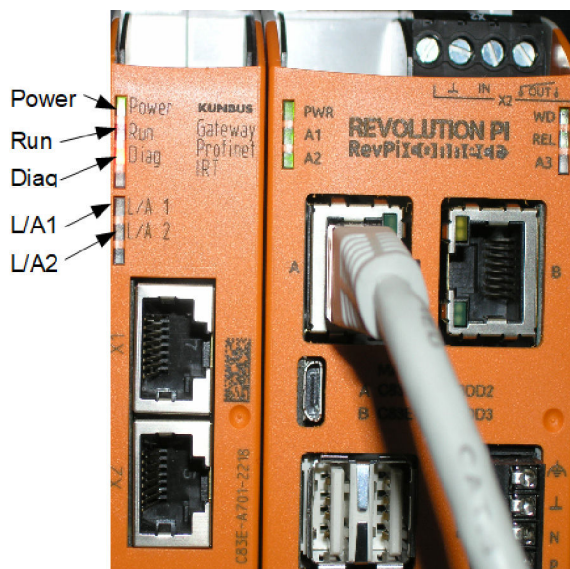


Съобщение	Описание	Решение
Светодиодът за захранването е изключен.	Ethernet/IP шлюзът е зададен на изключено положение.	Включете захранването.
Светодиодът за захранването мига в зелено.	Процедурата за стартиране не е завършила.	Изчакайте няколко минути.
Светодиодът за захранването мига в червено.	Показва предупреждение.	Проверете дали всички устройства са свързани.
Светодиодът за захранването е червен.	Показва грешка.	Ethernet/IP шлюзът е дефектен. Подменете Ethernet/IP шлюза.
Светодиодът за MS е изключен.	Ethernet/IP шлюзът е зададен на изключено положение.	Включете захранването.
Светодиодът за MS мига в зелено.	Процедурата за конфигуриране не е завършила.	Изчакайте няколко минути.
Светодиодът за MS мига в червено.	Показва грешка в конфигурацията.	Направете справка с Конфигуриране на Ethernet/IP шлюза на страница 194 за проверка на конфигурацията.
Светодиодът за MS е червен.	Показва грешка.	Ethernet/IP шлюзът е дефектен. Подменете Ethernet/IP шлюза.

Съобщение	Описание	Решение
Светодиодът за MS мига в червено и зелено.	Самотестването не е завършило.	Изчакайте няколко минути.
Светодиодът за NS е изключен.	Ethernet/IP шлюзът е зададен на изключено положение или няма IP адрес.	Включете захранването. Задайте IP адреса.
Светодиодът за NS мига в зелено.	IP адресът е зададен, но връзката CIP не е установена.	Изчакайте няколко минути.
Светодиодът за NS мига в червено.	Връзката със CIP е спряла.	Проверете дали има период на изчакване.
Светодиодът за NS е червен.	Избраният IP адрес се използва от друго устройство.	Променете IP адреса на уникален IP адрес.
Светодиодът L/A 1 или 2 е изключен.	Няма връзка с други устройства.	Свържете към устройство.
Светодиодът L/A 1 или 2 мига в зелено.	Няма обмен на данни.	Изчакайте до следващия обмен на данни.

9.3 Отстраняване на неизправности при Profinet

Фигура 6 Profinet шлюз



Съобщение	Описание	Решение
Светодиодът за захранването е изключен.	Profinet шлюзът е изключен.	Включете захранването.
Светодиодът за захранването мига в зелено.	Процедурата за стартиране не е завършена.	Изчакайте няколко минути.

Съобщение	Описание	Решение
Светодиодът за захранването мига в червено.	Показва предупреждение.	Проверете дали всички устройства са инсталирани.
Светодиодът за захранването е червен.	Показва грешка.	Profinet шлюзът е дефектен. Заменете Profinet шлюза.
Светодиодът за цикъл е изключен.	Няма връзка с мрежа.	Свържете с мрежа.
Светодиодът за цикъл мига в зелено.	Контролерът Profinet е свързан, но няма обмен на данни.	Изчакайте до следващия обмен на данни.
Светодиодът за цикъл мига бавно в зелено.	Задействан от инструмент за идентификация на компонент на шлюза.	Изчакайте няколко минути.
Светодиодът за диагностика мига в червено.	Задействан от инструмент за идентификация на компонент на шлюза.	Изчакайте няколко минути.
Светодиодът за диагностика мига бързо в червено.	Няма връзка с контролера. Няма име на Profinet, зададено в модула.	Направете справка с Конфигуриране на Profinet шлюза на страница 197 за задаване на името.
Светодиодът за диагностика е червен.	Устройството на шлюза отчита диагностични данни.	Направете справка с диагностичния отчет.
Светодиодът L/A 1 или 2 е изключен.	Няма връзка с мрежа.	Свържете с мрежа.
Светодиодът L/A 1 или 2 мига в зелено.	Обмен на данни.	Изчакайте обменът на данни да завърши.

Obsah

- 1 Intended use on page 204
- 2 Introduction on page 204
- 3 Start the USB configuration on page 206
- 4 Examples for installation on page 207
- 5 Setup of the SC4200c Controller Modbus TCP telegram on page 210
- 6 Setup of the SC1500 Controller Modbus TCP telegram on page 213
- 7 Configure the Ethernet/IP Gateway on page 216
- 8 Configure the Profinet Gateway on page 219
- 9 Poruchy, jejich příčiny a odstraňování na straně 222

Section 1 Intended use

These setup instructions are intended for use by persons who integrate external Ethernet/IP Gateway or Profinet Gateway as hardware components in the Claros network.

Section 2 Introduction

The manufacturer is not responsible for any damages due to misapplication or misuse of this product including, without limitation, direct, incidental and consequential damages, and disclaims such damages to the full extent permitted under applicable law. The user is solely responsible to identify critical application risks and install appropriate mechanisms to protect processes during a possible equipment malfunction.

▲ DANGER



Nebezpečí smrtelného úrazu elektrickým proudem. Před jakýmkoli pracemi na elektrickém zapojení odpojte přístroj od zdroje napájení.

Items to collect:

- USB stick formatted as FAT32
- PC with Windows¹ 10
- Module:
 - For Ethernet/IP implementation:
 - LXZ446.99.00001: GATEWAY IloT RevPi Basic Module
 - LXZ446.99.00002: GATEWAY Ethernet/IP Slave
 - LXZ446.99.00003: Jumper for PiBridge
 - For Profinet implementation:
 - LXZ446.99.00001: GATEWAY IloT RevPi Basic Module
 - LXZ446.99.00007: GATEWAY Profinet IRT Slave
 - LXZ446.99.00003: Jumper for PiBridge

Connect the three modules RevPi, Slave and PiBridge to power and LAN.

Refer to the links in the table that follows for more information from the manufacturer of the modules.

Module	Link
GATEWAY Profinet IRT Slave	https://www.kunbus.com/profinet-irt-gateway-module.html
GATEWAY Ethernet/IP Slave	https://www.kunbus.com/ethernet-ip-gateway-module.html

¹ Microsoft® Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

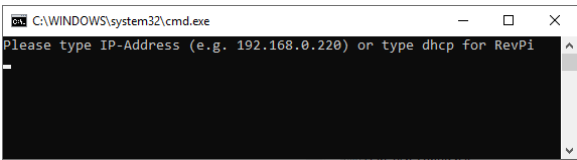
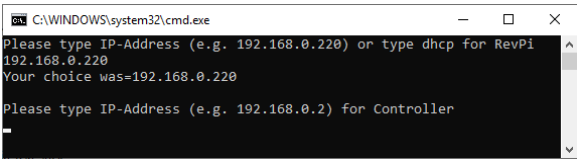
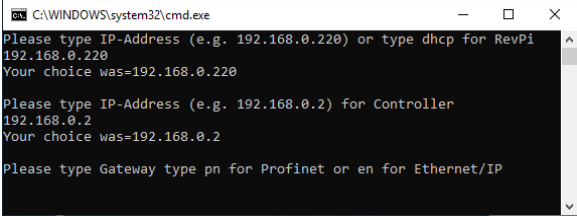
Module	Link
GATEWAY IIoT RevPi Basic Module	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
How to connect RevPi Modules	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
How to install RevPi Modules on a DIN rail	https://revolution.kunbus.com/tutorials/din-rail-mounting/
How to connect the power supply	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

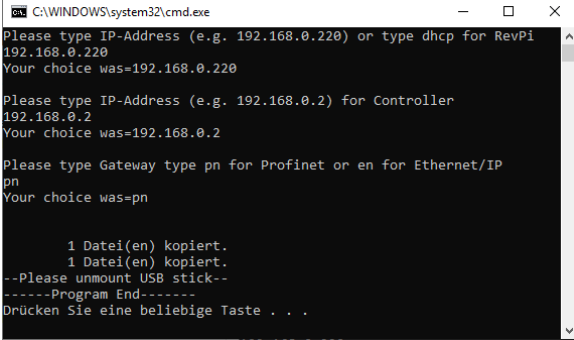


Prepare the USB stick

1. Insert an empty USB stick in the PC.
2. Go to <https://www.hach.com> and search for the keywords "usb ethernet/IP installation" or "usb profinet installation".
3. Download USB_ETHIP_PRNET.zip.
4. Unzip the file into the root directory of the USB stick.

Section 3 Start the USB configuration

Insert the prepared USB stick in the PC.

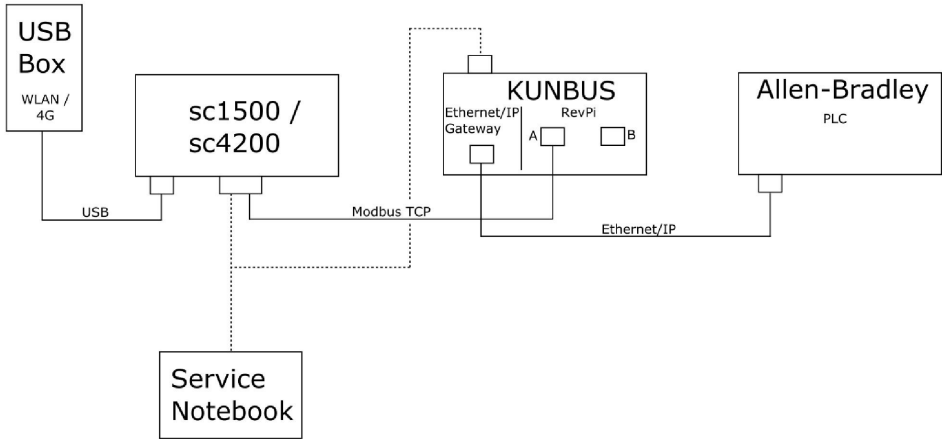
Step	Description	Picture
1	Start start_usb_config.bat. A terminal window opens. Follow the step-by-step guide.	
2	Enter the IP address of the RevPi module.	 <pre>C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi _</pre>
3	Enter the IP address of the SC controller. Make sure that the Network prefix is the same as from the RevPi module (e.g., 192.168.0). Make sure that the host identifier is different to the RevPi module (e.g., 220 RevPi, 2 Controller).	 <pre>C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi 192.168.0.220 Your choice was=192.168.0.220 Please type IP-Address (e.g. 192.168.0.2) for Controller _</pre>
4	Enter the Gateway type: <ul style="list-style-type: none">• pn—Profinet• en—Ethernet/IP	 <pre>C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi 192.168.0.220 Your choice was=192.168.0.220 Please type IP-Address (e.g. 192.168.0.2) for Controller 192.168.0.2 Your choice was=192.168.0.2 Please type Gateway type pn for Profinet or en for Ethernet/IP</pre>

Step	Description	Picture
5	<p>Confirm the settings with Enter. Remove the USB stick.</p>	
6	<p>Insert the USB stick in the left USB socket of the RevPi Module.</p>	
7	<p>LED description:</p> <ul style="list-style-type: none"> • A1/A2 orange: RevPi installation starts. • A1 red, A2 off: RevPi insert USB stick. • A1 green, A2 off: USB stick inserted successfully. • A1 off, A2 green: RevPi downloads/uploads data from USB stick. • A3 red: RevPi reboots. <p>When A3 is red, remove the USB stick.</p>	
8	<p>The RevPi settings are complete.</p>	

Section 4 Examples for installation

Figure 1 shows an installation with two different LAN connections.

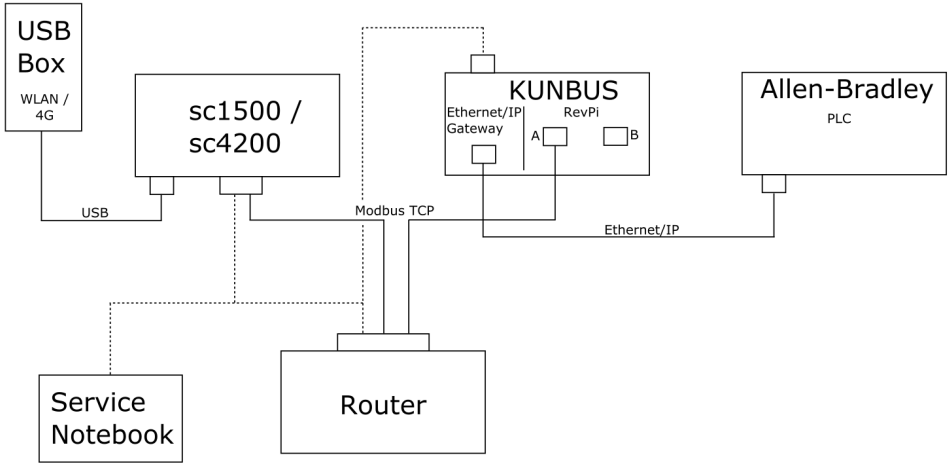
Figure 1 Example 1



- Modbus TCP and Ethernet/IP use two different LAN connections.
- All of the devices have a static IP address.
- The controller has internet access with WiFi or cellular connection.
- To set up the IP addresses of the controller and the Ethernet/IP gateway, a laptop is necessary.

Figure 2 shows an installation with a router for the Modbus TCP connection.

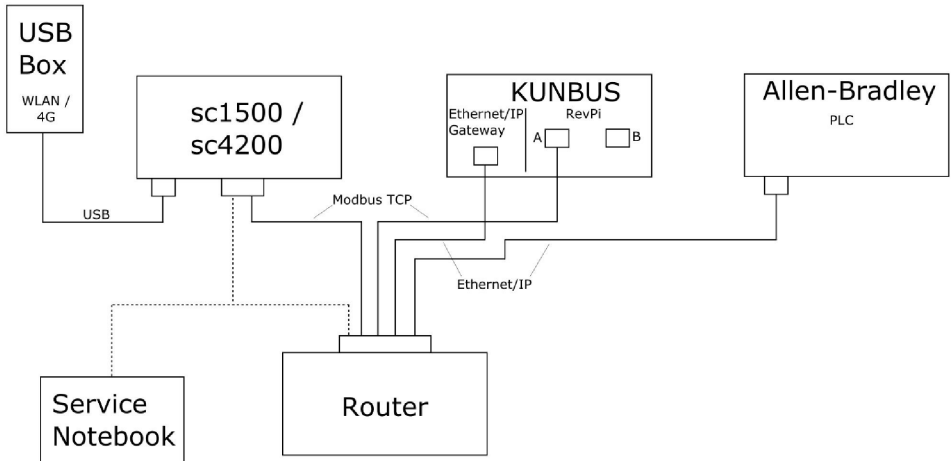
Figure 2 Example 2



- The Modbus TCP is connected to a router.
- All of the devices have a static IP address or the router sets the IP address through DHCP.
Note: Make sure that the router always uses the same IP address for the same devices (MAC) if DHCP is used.
- The controller has internet access with WiFi or cellular connection.
- To set up the IP address of the controller, the Ethernet/IP gateway and the router settings, a laptop is necessary.

Figure 3 shows an installation with a router or switch for all devices.

Figure 3 Example 3



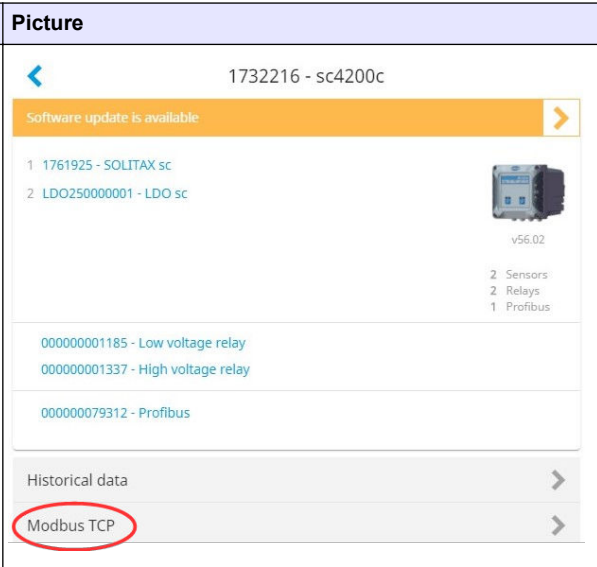
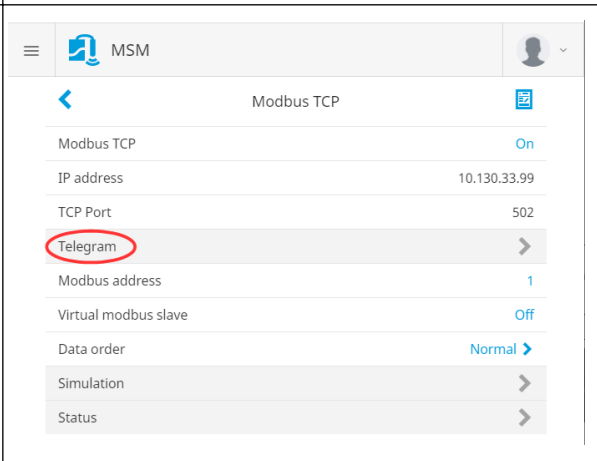
- All of the devices are connected with a router or switch.
- All of the devices have a static IP address or the router or switch sets the IP address through DHCP.

Note: Make sure that the router always uses the same IP address for the same devices (MAC) if DHCP is used.

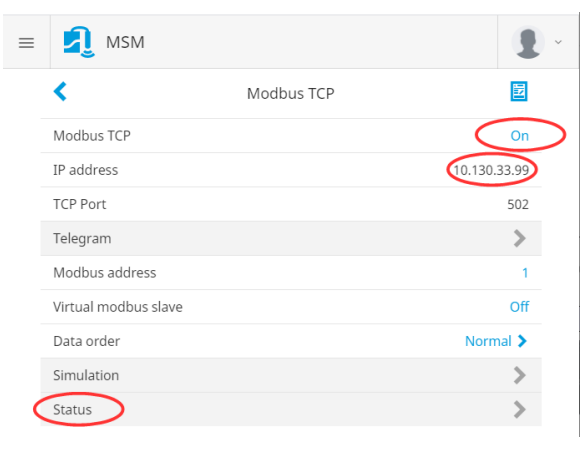

- The controller has internet access with WiFi or cellular connection.
- To set up the IP address of the controller and the router settings, a laptop is necessary.

Section 5 Setup of the SC4200c Controller Modbus TCP telegram

Start the Claros application and follow the step-by-step guide.

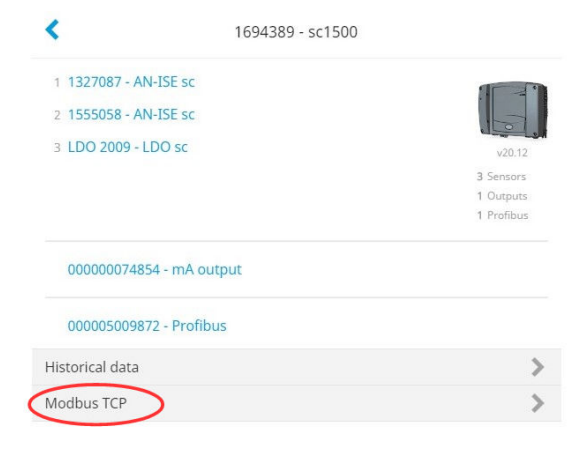
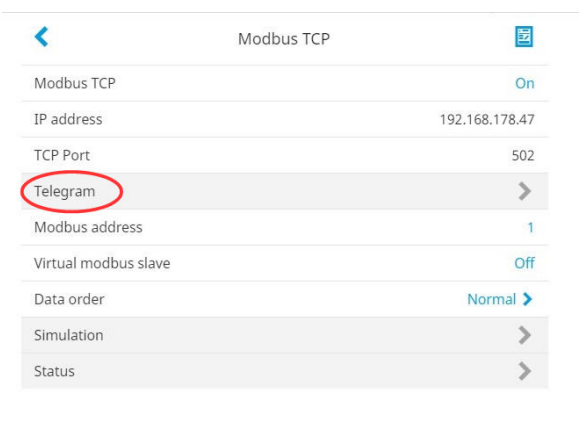
Step	Description	Picture
1	Select the controller menu, then push Modbus TCP .	
2	Select Telegram to set the Modbus TCP telegram.	

Step	Description	Picture
3	<p>The shown telegram is an example for the LDO sc sensor.</p> <p>Set the Heartbeat to integer.</p> <p>The heartbeat is a counter that shows the update of the value at one second increments.</p> <p><i>Note: The content of the Modbus TCP telegram is the same as the Profibus telegram.</i></p>	<p>The top screenshot shows the 'Telegram' configuration screen. It features a header with a menu icon, the 'MSM' logo, and a user profile icon. Below the header, there is a back arrow, the title 'Telegram', and a status '1 devices'. A '+ ADD SENSOR' button is visible. A list of sensors is shown, with 'LDO250000001 LDO sc' selected. At the bottom, there are 'CANCEL' and 'SAVE' buttons.</p> <p>The bottom screenshot shows the configuration for the selected sensor 'LDO250000001'. It includes a 'DELETE SENSOR' link, a list of tags: '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer), and a '+ ADD NEW TAG' button. At the bottom, there are 'CANCEL' and 'OK' buttons.</p>

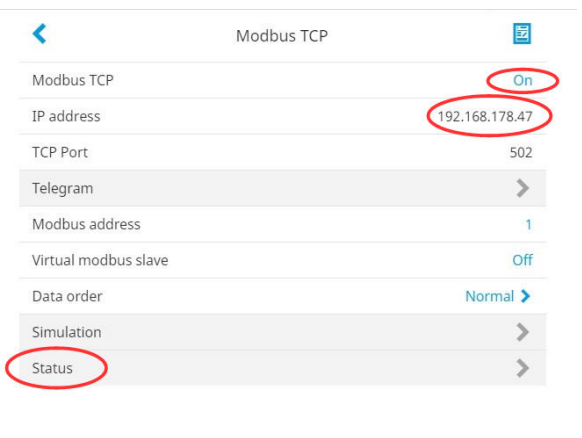
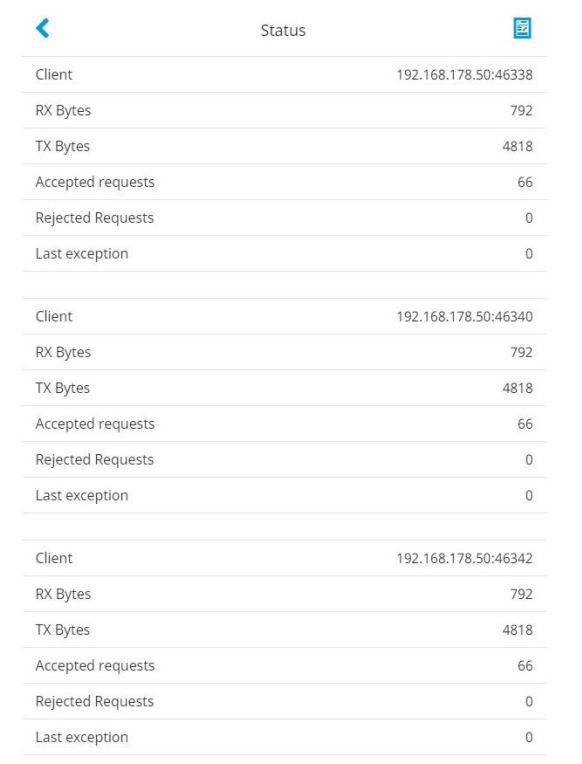
Step	Description	Picture																								
4	<p>The Modbus TCP menu shows the IP address of the controller. 10.130.33.99 is the IP address set in the controller service menu. Set Modbus TCP to On, then push Status.</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a header with a menu icon, the 'MSM' logo, and a user profile icon. Below the header, the title 'Modbus TCP' is centered. The main content area contains several settings: 'Modbus TCP' (set to 'On'), 'IP address' (set to '10.130.33.99'), 'TCP Port' (set to '502'), 'Telegram' (with a right arrow), 'Modbus address' (set to '1'), 'Virtual modbus slave' (set to 'Off'), and 'Data order' (set to 'Normal' with a right arrow). At the bottom, there are two more menu items: 'Simulation' and 'Status', both with right arrows. The 'On' toggle, the IP address, and the 'Status' menu item are highlighted with red circles.</p>																								
5	<p>The Status menu shows the Modbus TCP statistics. 10.130.33.50 is the IP address of the RevPi Module. The RevPi has 5 Modbus TCP master.</p>	 <p>The screenshot shows the 'Status' screen with three sections of statistics for different clients. Each section lists: Client IP, RX Bytes, TX Bytes, Accepted requests, Rejected Requests, and Last exception. The first client is 10.130.33.50:46338, the second is 10.130.33.50:46340, and the third is 10.130.33.50:46342. All statistics values are consistent across the three clients.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>10.130.33.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	10.130.33.50:46338	792	4818	66	0	0	10.130.33.50:46340	792	4818	66	0	0	10.130.33.50:46342	792	4818	66	0	0
Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception																					
10.130.33.50:46338	792	4818	66	0	0																					
10.130.33.50:46340	792	4818	66	0	0																					
10.130.33.50:46342	792	4818	66	0	0																					

Section 6 Setup of the SC1500 Controller Modbus TCP telegram

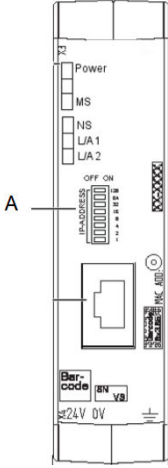
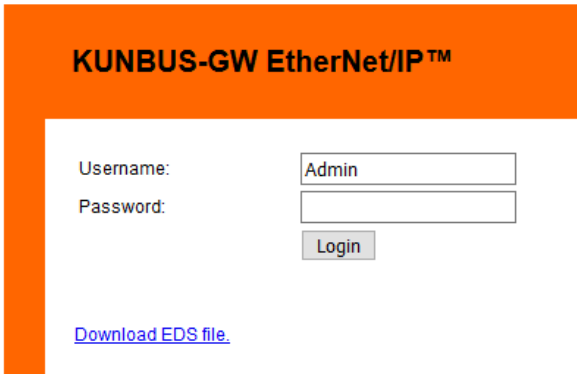
Start the Claros application and follow the step-by-step guide.


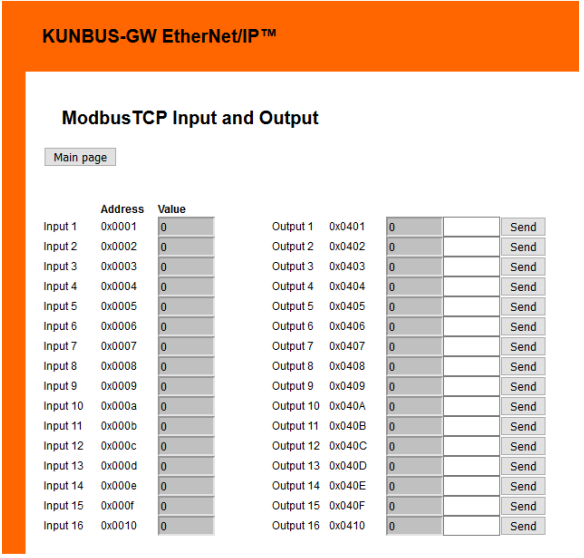
Step	Description	Picture
1	Select the controller menu, then push Modbus TCP .	
2	Select Telegram to set the Modbus TCP telegram.	

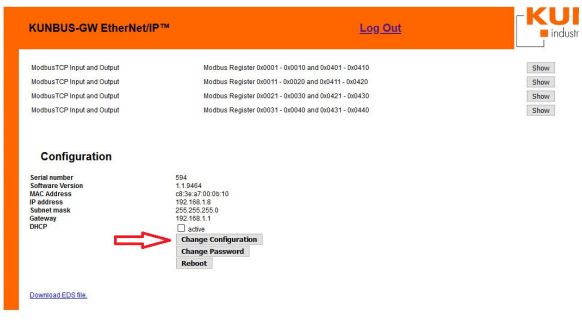

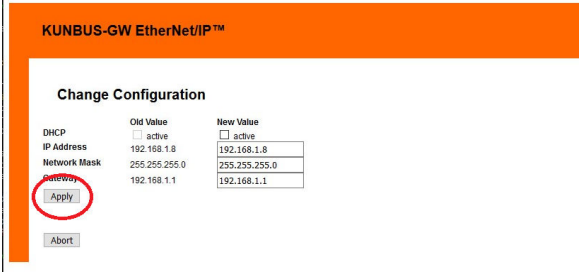
Step	Description	Picture
3	<p>The shown telegram is an example for the LDO sc sensor.</p> <p>Set the Heartbeat to integer.</p> <p>The heartbeat is a counter that shows the update of the value at one second increments.</p> <p><i>Note: The content of the Modbus TCP telegram is the same as the Profibus telegram.</i></p>	<p>The screenshot shows two screens from a configuration application. The top screen is titled 'Telegram' and shows '1 devices' with a '+ ADD SENSOR' button. A list of sensors is shown with 'LDO 2009' and 'LDO sc' selected. The bottom screen is titled 'LDO 2009' and shows configuration options: '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer). There is a '+ ADD NEW TAG' button and 'CANCEL' and 'OK' buttons at the bottom.</p>

Step	Description	Picture																								
4	<p>The Modbus TCP menu shows the IP address of the controller. 192.168.178.47 is the IP address set in the controller service menu. Set Modbus TCP to On, then push Status.</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a back arrow, the title 'Modbus TCP', and a help icon. Below are several settings: 'Modbus TCP' is set to 'On' (circled in red); 'IP address' is '192.168.178.47' (circled in red); 'TCP Port' is '502'; 'Telegram' has a right arrow; 'Modbus address' is '1'; 'Virtual modbus slave' is 'Off'; 'Data order' is 'Normal' with a right arrow; 'Simulation' has a right arrow; and 'Status' has a right arrow (circled in red).</p>																								
5	<p>The Status menu shows the Modbus TCP statistics. 192.168.178.50 is the IP address of the RevPi Module. The RevPi has 7 Modbus TCP master.</p>	 <p>The screenshot shows the 'Status' screen with statistics for three clients. Each client's data is as follows:</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>192.168.178.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	192.168.178.50:46338	792	4818	66	0	0	192.168.178.50:46340	792	4818	66	0	0	192.168.178.50:46342	792	4818	66	0	0
Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception																					
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192.168.178.50:46342	792	4818	66	0	0																					

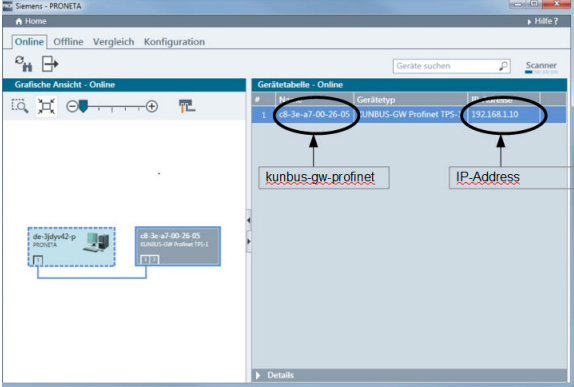
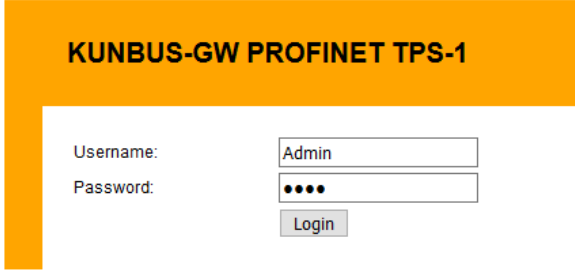
Section 7 Configure the Ethernet/IP Gateway

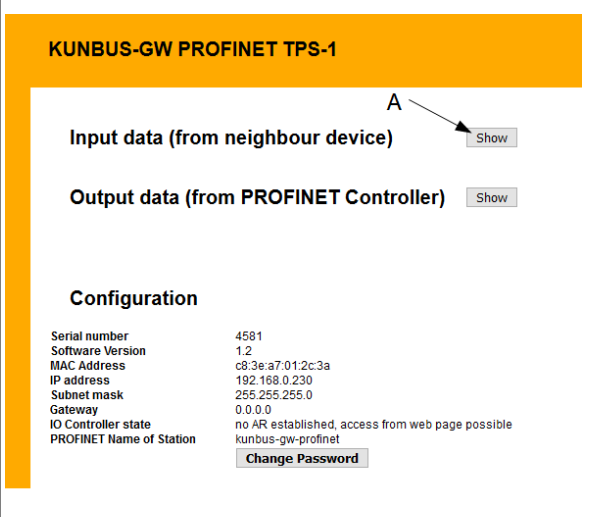
Step	Description	Picture
1	<ul style="list-style-type: none"> Connect the Ethernet/IP Gateway to the PC with the LAN-to-USB adapter cable. Refer to Introduction on page 204. Use the link of the GATEWAY Ethernet/IP Slave. Follow the instruction in the manufacturer's user manual, <i>Gateway component for EtherNet/IP</i>. Use the 8-pin address switch (A) to set the host identifier to the binary format of the Gateway. <ul style="list-style-type: none"> Example: Set the host to 8: 00010000 Open the website http://192.168.1.X (X=Sum of all switches set to ON). 	 <p>The diagram shows the physical components of the gateway. At the top, there are labels for 'Power', 'MS', 'NS', 'LIA 1', and 'LIA 2'. Below these is an 8-pin address switch labeled 'A' with a line pointing to it. The switch has eight pins labeled '1' through '8'. Below the switch is a 'Bar-CODE' and a '24V DV' power source. There is also a 'Power' button and a 'Reset' button.</p>
2	<p>Open the browser and enter the IP address 192.168.1.X. Login data for the first login: User: Admin Password: 1701 Push Login.</p>	 <p>The screenshot shows the login interface for the KUNBUS-GW EtherNet/IP gateway. The title is 'KUNBUS-GW EtherNet/IP™'. Below the title, there are two input fields: 'Username:' with the value 'Admin' and 'Password:'. Below the password field is a 'Login' button. At the bottom, there is a link to 'Download EDS file'.</p>

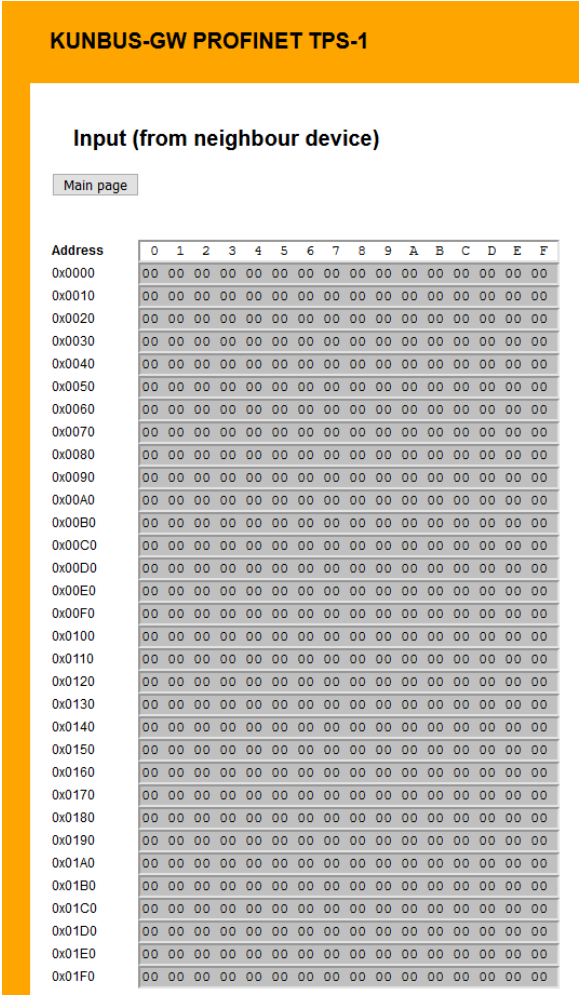
Step	Description	Picture																																																																																																						
3	<p>The controller and Ethernet/IP Gateway transfers the data area 0000 - 01BF, which is a range of 448 byte or 112 float or 224 interger or a mix of them, based on the telegram type of the Modbus TCP in the controller.</p> <p>Note: Only the first data range to 32 interger show. View all data in the PLC (224 interger).</p> <p>Push Show.</p>																																																																																																							
4	<p>The selected data area is shown.</p>	 <table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Input 1 0x0001</td> <td>0</td> <td>Output 1</td> <td>0x0401</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 2 0x0002</td> <td>0</td> <td>Output 2</td> <td>0x0402</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 3 0x0003</td> <td>0</td> <td>Output 3</td> <td>0x0403</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 4 0x0004</td> <td>0</td> <td>Output 4</td> <td>0x0404</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 5 0x0005</td> <td>0</td> <td>Output 5</td> <td>0x0405</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 6 0x0006</td> <td>0</td> <td>Output 6</td> <td>0x0406</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 7 0x0007</td> <td>0</td> <td>Output 7</td> <td>0x0407</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 8 0x0008</td> <td>0</td> <td>Output 8</td> <td>0x0408</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 9 0x0009</td> <td>0</td> <td>Output 9</td> <td>0x0409</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 10 0x000a</td> <td>0</td> <td>Output 10</td> <td>0x040A</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 11 0x000b</td> <td>0</td> <td>Output 11</td> <td>0x040B</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 12 0x000c</td> <td>0</td> <td>Output 12</td> <td>0x040C</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 13 0x000d</td> <td>0</td> <td>Output 13</td> <td>0x040D</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 14 0x000e</td> <td>0</td> <td>Output 14</td> <td>0x040E</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 15 0x000f</td> <td>0</td> <td>Output 15</td> <td>0x040F</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 16 0x0010</td> <td>0</td> <td>Output 16</td> <td>0x0410</td> <td>0</td> <td>Send</td> </tr> </tbody> </table>	Address	Value					Input 1 0x0001	0	Output 1	0x0401	0	Send	Input 2 0x0002	0	Output 2	0x0402	0	Send	Input 3 0x0003	0	Output 3	0x0403	0	Send	Input 4 0x0004	0	Output 4	0x0404	0	Send	Input 5 0x0005	0	Output 5	0x0405	0	Send	Input 6 0x0006	0	Output 6	0x0406	0	Send	Input 7 0x0007	0	Output 7	0x0407	0	Send	Input 8 0x0008	0	Output 8	0x0408	0	Send	Input 9 0x0009	0	Output 9	0x0409	0	Send	Input 10 0x000a	0	Output 10	0x040A	0	Send	Input 11 0x000b	0	Output 11	0x040B	0	Send	Input 12 0x000c	0	Output 12	0x040C	0	Send	Input 13 0x000d	0	Output 13	0x040D	0	Send	Input 14 0x000e	0	Output 14	0x040E	0	Send	Input 15 0x000f	0	Output 15	0x040F	0	Send	Input 16 0x0010	0	Output 16	0x0410	0	Send
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Step	Description	Picture															
5	Push Change Configuration to set the IP address.	 <p>KUNBUS-GW EtherNet/IP™ Log Out </p> <p>ModbusTCP Input and Output Modbus Register 0x0011 - 0x0010 and 0x0421 - 0x0410 Show</p> <p>ModbusTCP Input and Output Modbus Register 0x0711 - 0x0720 and 0x0411 - 0x0420 Show</p> <p>ModbusTCP Input and Output Modbus Register 0x0221 - 0x0230 and 0x0421 - 0x0430 Show</p> <p>ModbusTCP Input and Output Modbus Register 0x0311 - 0x0340 and 0x0431 - 0x0440 Show</p> <p>Configuration</p> <p>Serial Number 594</p> <p>Software Version 1.1.9464</p> <p>MAC Address 68-36-37-70-00-10</p> <p>IP Address 192.168.1.8</p> <p>Subnet mask 255.255.255.0</p> <p>Gateway 192.168.1.1</p> <p>DHCP <input type="checkbox"/> active</p> <p>Change Configuration Change Password Reboot</p> <p>Download EDS file</p>															
6	Change the IP address according to the gateway address. Push Apply to confirm. Set all dip switches to off. Set the power of the gateway to off, then restart. The new IP Address is now used.	 <p>KUNBUS-GW EtherNet/IP™</p> <p>Change Configuration</p> <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td><input type="checkbox"/> active</td> <td><input type="checkbox"/> active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table> <p>Apply Abort</p>		Old Value	New Value	DHCP	<input type="checkbox"/> active	<input type="checkbox"/> active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0	Gateway	192.168.1.1	192.168.1.1
	Old Value	New Value															
DHCP	<input type="checkbox"/> active	<input type="checkbox"/> active															
IP Address	192.168.1.8	192.168.1.8															
Network Mask	255.255.255.0	255.255.255.0															
Gateway	192.168.1.1	192.168.1.1															

Section 8 Configure the Profinet Gateway

Step	Description	Picture
1	<ul style="list-style-type: none"> Connect the Profinet Gateway to the PC with the LAN-to-LAN adapter. Refer to Introduction on page 204. Use the link of the GATEWAY Profinet IRT Slave. Follow the instruction in the manufacturer's user manual <i>Gateway Component for PROFINET</i>. Use the software PRONETA to set the name to kunbus-gw-profinet. Enter the used IP address. 	
2	<p>Open the browser and enter the IP address. Login data for first login: User: Admin Password: 1701 Push Login.</p>	

Step	Description	Picture																
3	Push Show (A) to show the input data.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
Serial number	4581																	
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4	<p>Shows all data sent from the controller to the Profinet Gateway.</p> <p>The controller and Profinet Gateway transfers the data area 0000 - 01BF, which is a range of 448 byte or 112 float or 224 interger or a mix of them, based on the telegram type of the Modbus TCP in the controller.</p>	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input (from neighbour device)</p> <p>Main page</p> <table border="1"> <thead> <tr> <th>Address</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Kapitola 9 Poruchy, jejich příčiny a odstraňování

9.1 Troubleshooting RevPi

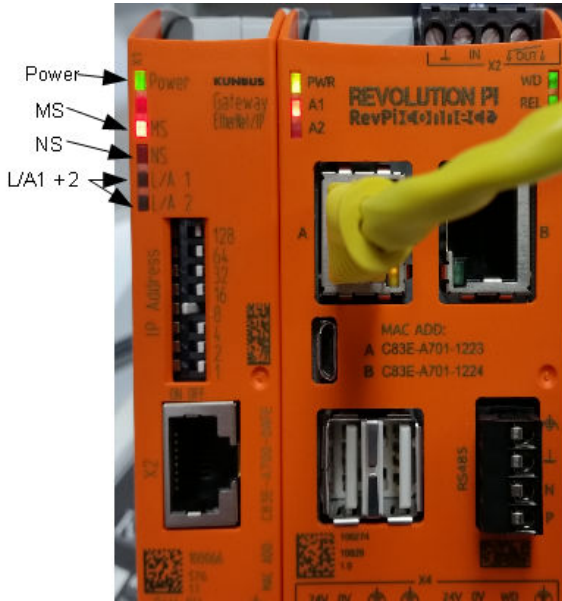
Figure 4 RevPi Basic module



Message	Description	Solution
LED A2 flashes red.	The communication has stopped.	<ul style="list-style-type: none">• Connect the network cable (cable or router).• Set the Modbus address setting in Claros to 1.• Set the Modbus TCP in Claros menu to on.
LED A3 slowly flashes red.	The configuration of the Ethernet/IP and Profinet Gateway is mixed up.	Refer to Start the USB configuration on page 206, step 4 and select the correct Gateway type: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Troubleshooting Ethernet/IP

Figure 5 Ethernet/IP Gateway

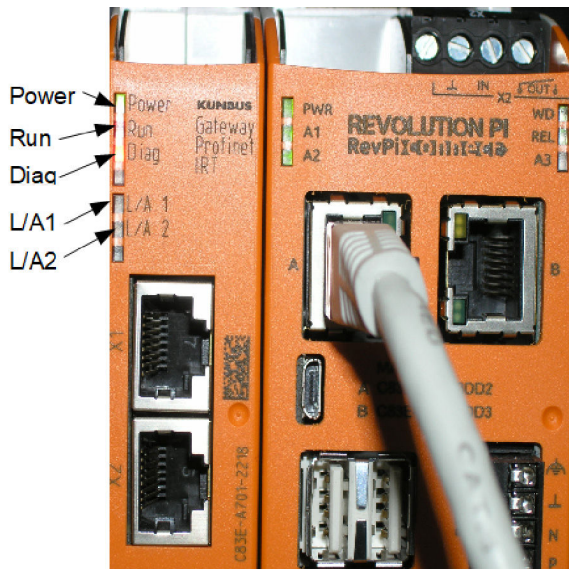


Message	Description	Solution
Power LED is off.	The Ethernet/IP gateway is set to off.	Set the power to on.
Power LED flashes green.	The start up procedure is not complete.	Wait a few minutes.
Power LED flashes red.	Shows a warning.	Examine if all of the devices are connected.
Power LED is red.	Shows an error.	The Ethernet/IP gateway is defective. Replace the Ethernet/IP gateway.
MS LED is off.	The Ethernet/IP gateway is set to off.	Set power to on.
MS LED flashes green.	The configuration procedure is not complete.	Wait a few minutes.
MS LED flashes red.	Shows a configuration error.	Refer to Configure the Ethernet/IP Gateway on page 216 to examine the configuration.
MS LED is red.	Shows an error.	The Ethernet/IP gateway is defective. Replace the Ethernet/IP gateway.
MS LED flashes red and green.	The self test is not complete.	Wait a few minutes.

Message	Description	Solution
NS LED is off.	The Ethernet/IP gateway is set to off or has no IP address.	Set power to on. Set the IP address.
NS LED flashes green.	The IP address is set but the CIP connection is not established.	Wait a few minutes.
NS LED flashes red.	The CIP connection has stopped.	Examine if there is a timeout.
NS LED is red.	The selected IP address is used by another device.	Change the IP address to a unique IP address.
L/A 1 or 2 LED is off.	There is no connection to other devices.	Connect to a device.
L/A 1 or 2 LED flashes green.	No data exchange.	Wait until the next data exchange.

9.3 Troubleshooting Profinet

Figure 6 Profinet Gateway



Message	Description	Solution
Power LED is off.	The Profinet gateway is off.	Set power to on.
Power LED flashes green.	The start up procedure is not completed.	Wait a few minutes.
Power LED flashes red.	Shows a warning.	Examine if all of the devices are installed.
Power LED is red.	Shows an error.	The Profinet gateway is defective. Replace the Profinet gateway.
Run LED is off.	No connection to a network.	Connect to network.

Message	Description	Solution
Run LED flashes green.	Profinet controller is connected but no data exchange.	Wait until the next data exchange.
Run LED flashes slowly green.	Triggered by tool for identification of the gateway component.	Wait a few minutes.
Diag LED flashes red.	Triggered by tool for identification of the gateway component.	Wait a few minutes.
Diag LED flashes fast red.	No connection to the controller. No Profinet name set in the module.	Refer to Configure the Profinet Gateway on page 219 to set the name.
Diag LED is red.	A Gateway device reports diagnosis data.	Refer to the diagnostic report.
L/A 1 or 2 LED is off.	No connection to a network.	Connect to network.
L/A 1 or 2 LED flashes green.	Data exchange.	Wait until the data exchange is complete.

Sadržaj

- | | |
|--|---|
| 1 Namjena na stranici 226 | 7 Konfiguracija Ethernet/IP pristupnika na stranici 238 |
| 2 Uvod na stranici 226 | 8 Konfiguracija Profinet pristupnika na stranici 241 |
| 3 Pokretanje USB konfiguracije na stranici 228 | 9 Rješavanje problema na stranici 244 |
| 4 Primjeri postavljanja na stranici 230 | |
| 5 Postavljanje Modbus TCP telegrama kontrolera SC4200c na stranici 232 | |
| 6 Postavljanje Modbus TCP telegrama kontrolera SC1500 na stranici 235 | |

Odjeljak 1 Namjena

Ove upute za postavljanje namijenjene su osobama koje integriraju vanjski Ethernet/IP ili Profinet pristupnik kao hardverske komponente u Claros mrežu.

Odjeljak 2 Uvod

Proizvođač nije odgovoran za štetu nastalu nepravilnom primjenom ili nepravilnom upotrebom ovog proizvoda, uključujući, bez ograničenja, izravnu, slučajnu i posljedičnu štetu, te se odriče odgovornosti za takvu štetu u punom opsegu, dopuštenom prema primjenjivim zakonima. Korisnik ima isključivu odgovornost za utvrđivanje kritičnih rizika primjene i za postavljanje odgovarajućih mehanizama za zaštitu postupaka tijekom mogućeg kvara opreme.

⚠ OPASNOST



Opasnost od strujnog udara. Prije priključivanja strujnih kabela uvijek isključite napajanje uređaja.

Potrebne stavke:

- USB memorija u formatu FAT32
- Računalo s operacijskim sustavom Windows¹ 10
- Modul:
 - Za primjenu Ethernet/IP pristupnika:
 - LXZ446.99.00001: GATEWAY IloT RevPi Basic Module
 - LXZ446.99.00002: GATEWAY Ethernet/IP Slave
 - LXZ446.99.00003: Jumper for PiBridge
 - Za primjenu Profinet pristupnika:
 - LXZ446.99.00001: GATEWAY IloT RevPi Basic Module
 - LXZ446.99.00007: GATEWAY Profinet IRT Slave
 - LXZ446.99.00003: Jumper for PiBridge

Povežite tri modula RevPi, Slave i PiBridge na napajanje i LAN.

Pogledajte veze u sljedećoj tablici za više informacija od proizvođača modula.

Modul	Veza
GATEWAY Profinet IRT Slave	https://www.kunbus.com/profinet-irt-gateway-module.html
GATEWAY Ethernet/IP Slave	https://www.kunbus.com/ethernet-ip-gateway-module.html

¹ Microsoft® Windows® je registrirani zaštitni znak tvrtke Microsoft Corporation u Sjedinjenim Američkim Državama i drugim zemljama.

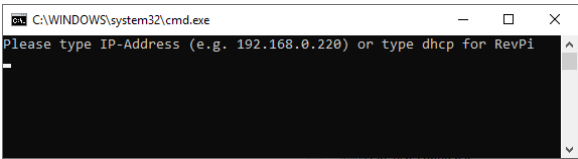
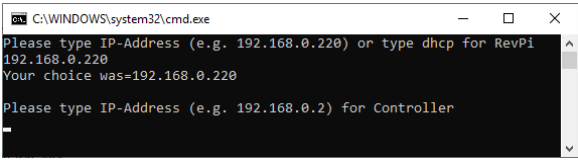
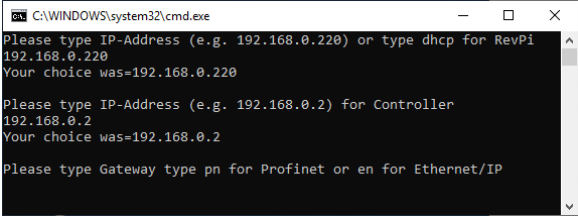
Modul	Veza
GATEWAY IIoT RevPi Basic Module	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
Kako povezati RevPi module	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Kako postaviti RevPi module na DIN vodilicu	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Kako spojiti napajanje	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

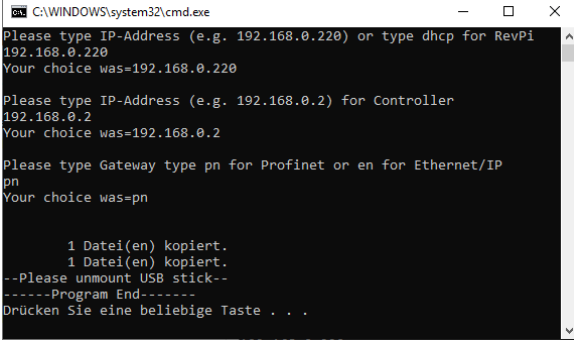


Priprema USB memorije

1. Umetnite praznu USB memoriju u računalo.
2. Idite na <https://www.hach.com> i potražite ključne riječi "usb ethernet/IP installation" (usb ethernet/IP instalacija) ili "usb profinet installation" (usb profinet instalacija).
3. Preuzmite USB_ETHIP_PRNET.zip.
4. Raspakirajte datoteku u korijenski direktorij USB memorije.

Odjeljak 3 Pokretanje USB konfiguracije

Umetnite pripremljenu USB memoriju u računalo.

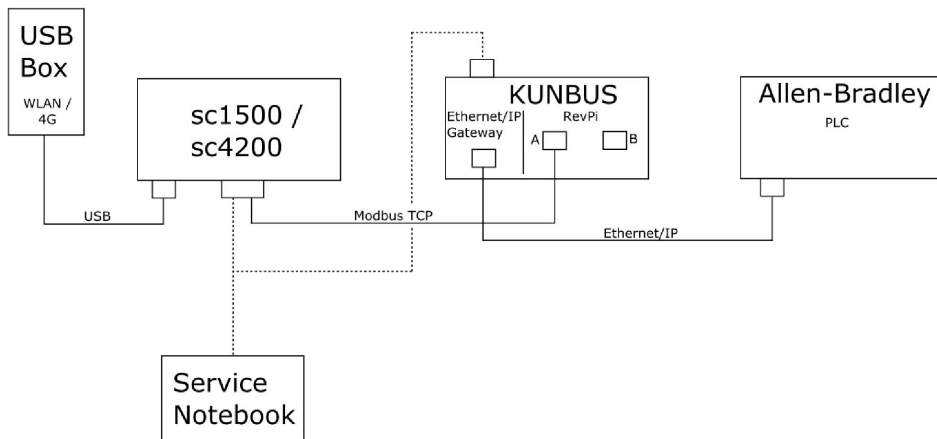
Korak	Opis	Slika
1	Pokrenite start_usb_config.bat. Otvorit će se prozor terminala. Slijedite detaljne upute.	
2	Unesite IP adresu modula RevPi.	
3	Unesite IP adresu SC kontrolera. Pobrinite se da je mrežni prefiks isti kao prefiks iz modula RevPi (npr. 192.168.0). Pobrinite se da se identifikator glavnog računala razlikuje od identifikatora modula RevPi (npr. 220 RevPi, 2 Controller).	
4	Unesite vrstu pristupnika: <ul style="list-style-type: none">• pn—Profinet• en—Ethernet/IP	

Korak	Opis	Slika
5	Potvrdite postavke s Enter. Izvadite USB memoriju.	
6	Umetnite USB memoriju u lijevi USB priključak modula RevPi.	
7	<p>Opis LED-dioda:</p> <ul style="list-style-type: none"> • A1/A2 narančasto: pokreće se instalacija RevPi. • A1 crveno, A2 isključeno: umetnite USB memoriju u RevPi. • A1 zeleno, A2 isključeno: USB memorija je uspješno umetnuta. • A1 isključeno, A2 zeleno: RevPi preuzima/učitava podatke s USB memorije. • A3 crveno: RevPi se ponovno pokreće. <p>Kada A3 svijetli crveno, izvadite USB memoriju.</p>	
8	Postavljanje RevPi je dovršeno.	

Odjeljak 4 Primjeri postavljanja

Slika 1 prikazuje postavljanje s dvije različite LAN veze.

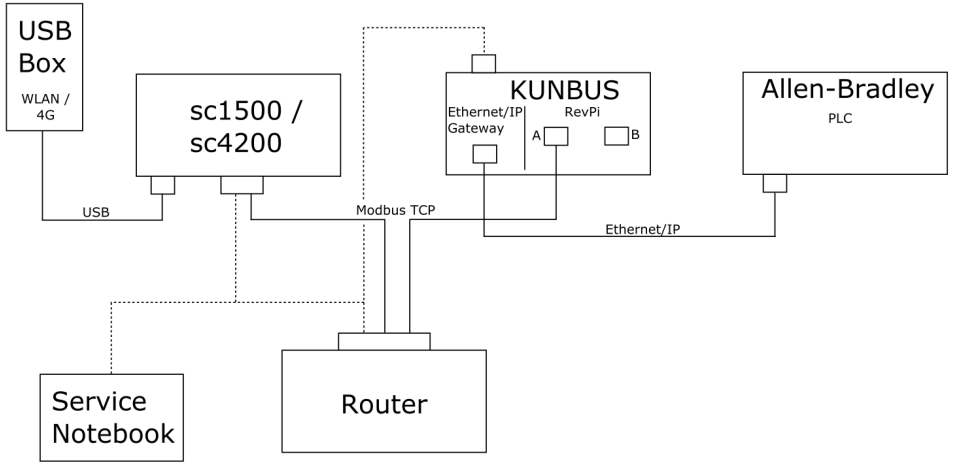
Slika 1 Primjer 1



- Modbus TCP i Ethernet/IP koriste dvije različite LAN veze.
- Svi uređaji imaju statičnu IP adresu.
- Kontroler ima pristup internetu putem Wi-Fi veze ili mobilne veze.
- Da biste postavili IP adrese kontrolera i Ethernet/IP pristupnika, potrebno je prijenosno računalo.

Slika 2 prikazuje postavljanje s usmjerivačem za Modbus TCP vezu.

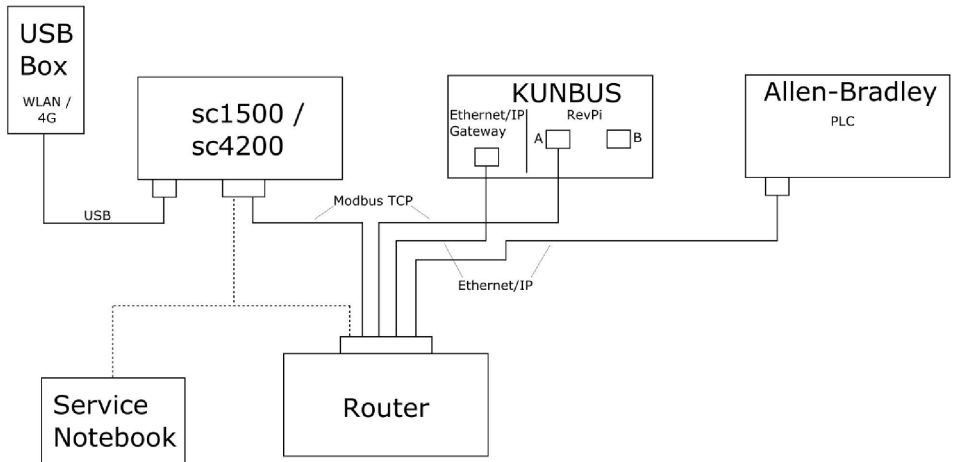
Slika 2 Primjer 2



- Modbus TCP spojen je na usmjerivač.
- Svi uređaji imaju statičnu IP adresu ili usmjerivač postavlja IP adresu putem DHCP-a.
Napomena: Pobrinite se da usmjerivač uvijek koristi istu IP adresu za iste uređaje (MAC) ako se koristi DHCP.
- Kontroler ima pristup internetu putem Wi-Fi veze ili mobilne veze.
- Da biste postavili IP adresu kontrolera, Ethernet/IP pristupnika i postavke usmjerivača, potrebno je prijenosno računalo.

Slika 3 prikazuje postavljanje s usmjerivačem ili prekidačem za sve uređaje.

Slika 3 Primjer 3

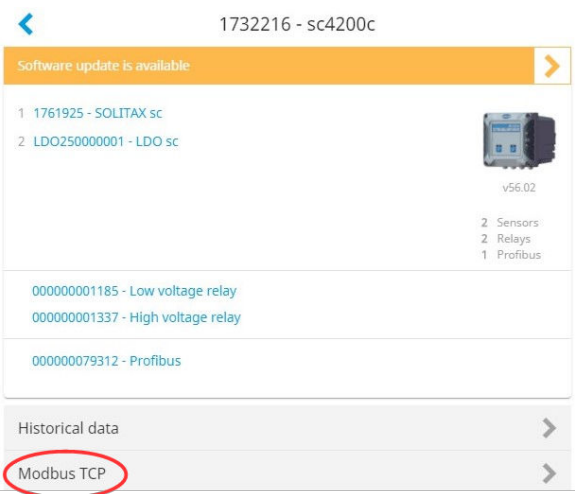
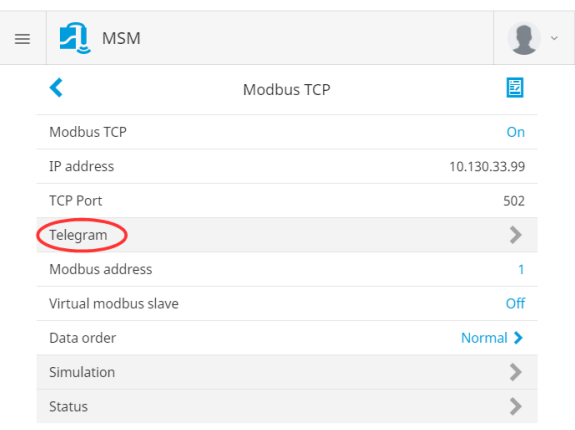


- Svi su uređaji povezani s usmjerivačem ili prekidačem.
- Svi uređaji imaju statičnu IP adresu ili usmjerivač ili prekidač postavlja IP adresu putem DHCP-a.
Napomena: Pobrinite se da usmjerivač uvijek koristi istu IP adresu za iste uređaje (MAC) ako se koristi DHCP.

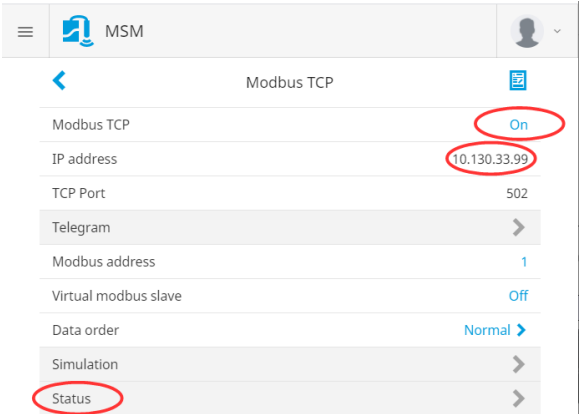

- Kontroler ima pristup internetu putem Wi-Fi veze ili mobilne veze.
- Da biste postavili IP adresu kontrolera i postavke usmjerivača, potrebno je prijenosno računalo.

Odjeljak 5 Postavljanje Modbus TCP telegrama kontrolera SC4200c

Pokrenite aplikaciju Claros i slijedite detaljne upute.

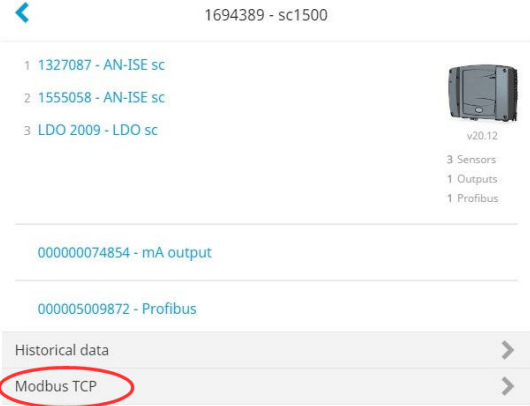
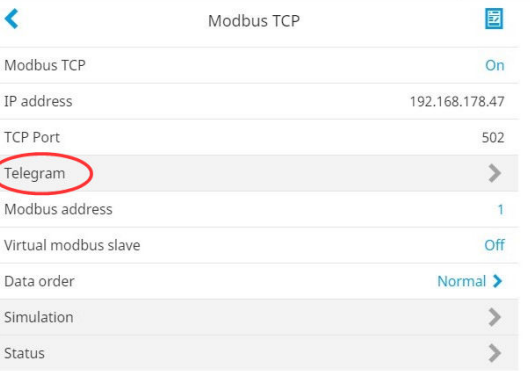
Korak	Opis	Slika
1	Odaberite izbornik kontrolera, a zatim pritisnite Modbus TCP .	
2	Odaberite Telegram da biste postavili Modbus TCP telegram.	

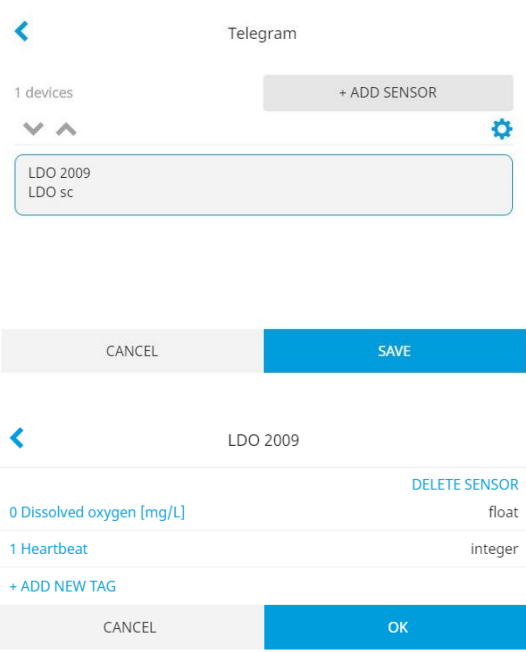
Korak	Opis	Slika
3	<p>Prikazani telegram primjer je senzora LDO sc. Postavite cijeli broj za Heartbeat (Otkucaj srca). Otkucaj srca je brojač koji prikazuje ažuriranje vrijednosti u koracima od jedne sekunde.</p> <p>Napomena: Sadržaj Modbus TCP telegrama je isti kao i sadržaj Profibus telegrama.</p>	<p>The image contains two screenshots from the MSM (Modbus Slave Manager) interface. The top screenshot shows the 'Telegram' configuration screen. At the top, there is a header with the MSM logo and a user profile icon. Below the header, there is a back arrow and the title 'Telegram'. Underneath, it says '1 devices' and has a '+ ADD SENSOR' button. A list of devices is shown with 'LDO250000001' and 'LDO sc'. There are up and down arrows and a settings gear icon. At the bottom, there are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the configuration for the selected sensor 'LDO250000001'. It has a back arrow and the title 'LDO250000001'. There is a 'DELETE SENSOR' link. Below, there are two tags: '0 Dissolved oxygen [mg/L]' with a 'float' data type, and '1 Heartbeat' with an 'integer' data type. There is a '+ ADD NEW TAG' link. At the bottom, there are 'CANCEL' and 'OK' buttons.</p>

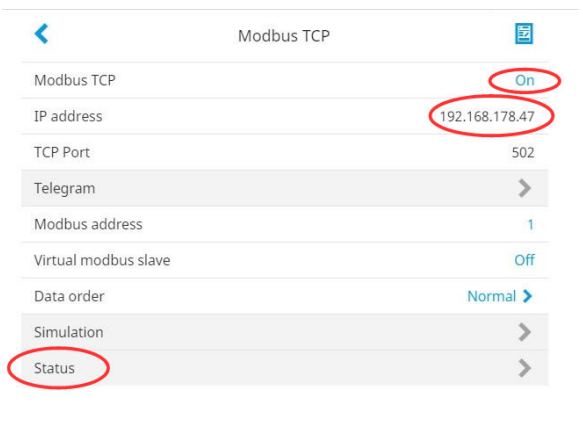
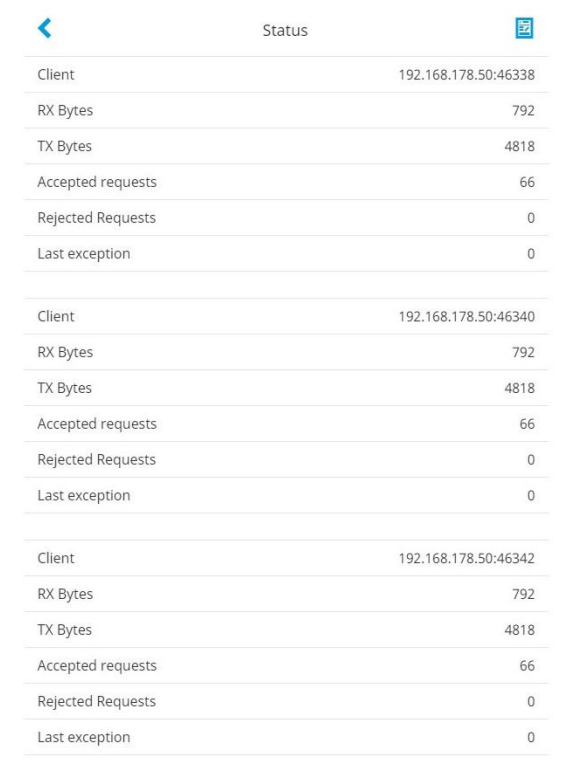
Korak	Opis	Slika																								
4	<p>Izbornik Modbus TCP prikazuje IP adresu kontrolera.</p> <p>10.130.33.99 je IP adresa postavljena u izborniku servisa kontrolera.</p> <p>Postavite Modbus TCP na On (Uključeno), zatim pritisnite Status.</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a menu icon, the 'MSM' logo, and a user profile icon. Below this is a back arrow, the title 'Modbus TCP', and a help icon. The configuration items are: 'Modbus TCP' (set to 'On'), 'IP address' (set to '10.130.33.99'), 'TCP Port' (set to '502'), 'Telegram' (with a right arrow), 'Modbus address' (set to '1'), 'Virtual modbus slave' (set to 'Off'), 'Data order' (set to 'Normal' with a right arrow), 'Simulation' (with a right arrow), and 'Status' (with a right arrow). The 'On' toggle, the IP address, and the 'Status' button are circled in red.</p>																								
5	<p>Izbornik Status prikazuje statistiku Modbus TCP.</p> <p>10.130.33.50 je IP adresa modula RevPi. RevPi ima 5 glavnih protokola Modbus TCP.</p>	 <p>The screenshot shows the 'Status' screen with three sections of statistics for different clients. Each section includes: Client IP, RX Bytes, TX Bytes, Accepted requests, Rejected Requests, and Last exception.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>10.130.33.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	10.130.33.50:46338	792	4818	66	0	0	10.130.33.50:46340	792	4818	66	0	0	10.130.33.50:46342	792	4818	66	0	0
Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception																					
10.130.33.50:46338	792	4818	66	0	0																					
10.130.33.50:46340	792	4818	66	0	0																					
10.130.33.50:46342	792	4818	66	0	0																					

Odjeljak 6 Postavljanje Modbus TCP telegrama kontrolera SC1500

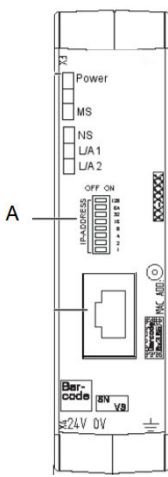
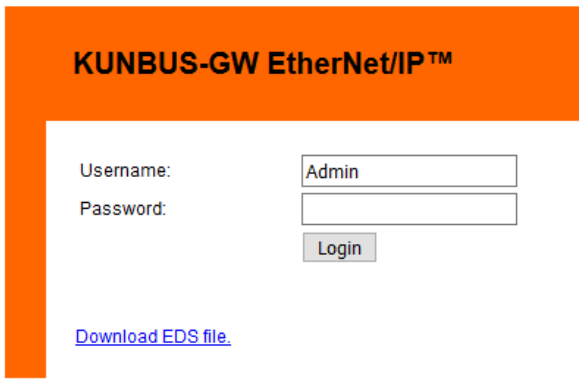
Pokrenite aplikaciju Claros i slijedite detaljne upute.


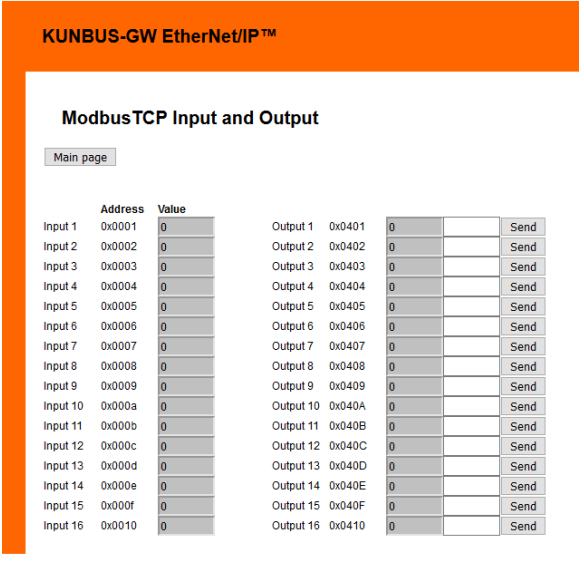
Korak	Opis	Slika
1	Odaberite izbornik kontrolera, a zatim pritisnite Modbus TCP .	 <p>The screenshot shows the main menu of the SC1500 controller. At the top, it displays '1694389 - sc1500'. Below this, there is a list of three items: '1 1327087 - AN-ISE sc', '2 1555058 - AN-ISE sc', and '3 LDO 2009 - LDO sc'. To the right of this list is a small image of the controller and its specifications: 'v20.12', '3 Sensors', '1 Outputs', and '1 Profibus'. Below the list, there are two options: '00000074854 - mA output' and '000005009872 - Profibus'. At the bottom, there are two menu items: 'Historical data' and 'Modbus TCP', both with right-pointing arrows. The 'Modbus TCP' item is circled in red.</p>
2	Odaberite Telegram da biste postavili Modbus TCP telegram.	 <p>The screenshot shows the configuration screen for 'Modbus TCP'. At the top, it displays 'Modbus TCP' and a blue icon. Below this, there are several configuration items: 'Modbus TCP' (On), 'IP address' (192.168.178.47), 'TCP Port' (502), 'Telegram' (circled in red), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal), 'Simulation', and 'Status'. Each item has a right-pointing arrow.</p>

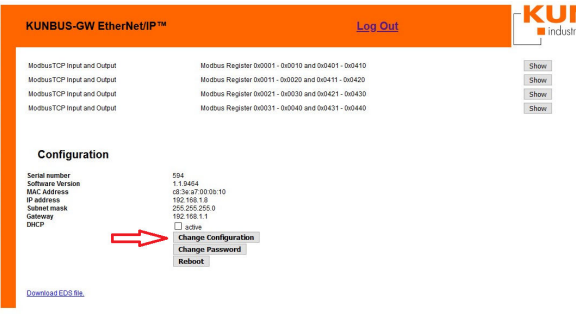

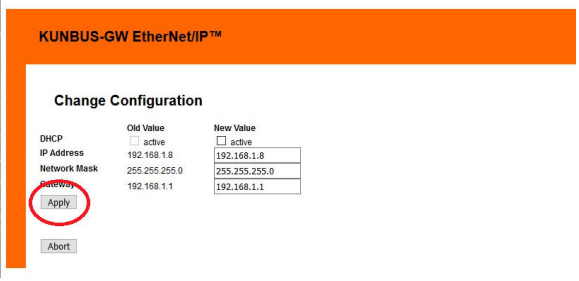
Korak	Opis	Slika
3	<p>Prikazani telegram primjer je senzora LDO sc. Postavite cijeli broj za Heartbeat (Otkucaj srca). Otkucaj srca je brojač koji prikazuje ažuriranje vrijednosti u koracima od jedne sekunde.</p> <p>Napomena: Sadržaj Modbus TCP telegrama je isti kao i sadržaj Profibus telegrama.</p>	 <p>The image contains two screenshots of a configuration interface. The top screenshot is titled 'Telegram' and shows a list of sensors. One sensor is highlighted: 'LDO 2009 LDO sc'. There are buttons for '+ ADD SENSOR', 'CANCEL', and 'SAVE'. The bottom screenshot is titled 'LDO 2009' and shows the configuration for this sensor. It lists two tags: '0 Dissolved oxygen [mg/L]' with a data type of 'float', and '1 Heartbeat' with a data type of 'integer'. There are buttons for 'DELETE SENSOR', '+ ADD NEW TAG', 'CANCEL', and 'OK'.</p>

Korak	Opis	Slika
4	<p>Izbornik Modbus TCP prikazuje IP adresu kontrolera. 192.168.178.47 je IP adresa postavljena u izborniku servisa kontrolera.</p> <p>Postavite Modbus TCP na On (Uključeno), zatim pritisnite Status.</p>	 <p>Modbus TCP</p> <p>Modbus TCP On</p> <p>IP address 192.168.178.47</p> <p>TCP Port 502</p> <p>Telegram ></p> <p>Modbus address 1</p> <p>Virtual modbus slave Off</p> <p>Data order Normal ></p> <p>Simulation ></p> <p>Status ></p>
5	<p>Izbornik Status prikazuje statistiku Modbus TCP. 192.168.178.50 je IP adresa modula RevPi. RevPi ima 7 glavnih protokola Modbus TCP.</p>	 <p>Status</p> <p>Client 192.168.178.50:46338</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p> <p>Client 192.168.178.50:46340</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p> <p>Client 192.168.178.50:46342</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p>

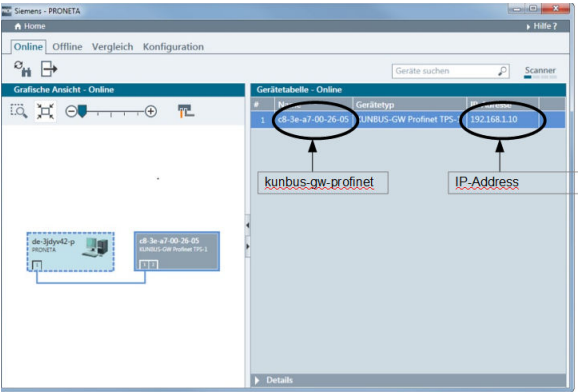
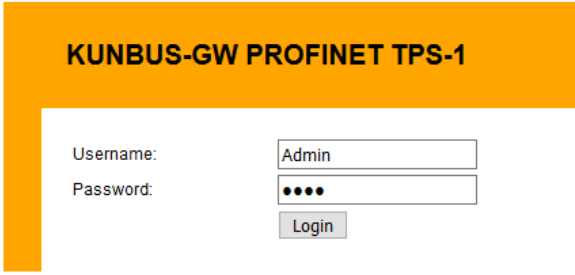
Odjeljak 7 Konfiguracija Ethernet/IP pristupnika

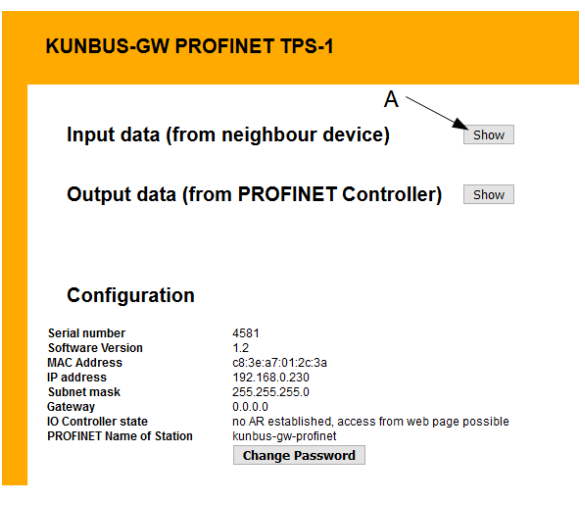
Korak	Opis	Slika
1	<ul style="list-style-type: none">• Povežite Ethernet/IP pristupnik s računalom putem adapterskog kabla LAN-na-USB.• Pogledajte Uvod na stranici 226. Koristite vezu GATEWAY Ethernet/IP Slave. Slijedite upute u korisničkom priručniku proizvođača <i>Komponenta pristupnika za EtherNet/IP</i>.• Upotrijebite 8-pinski prekidač za adresu (A) za postavljanje identifikatora glavnog računala na binarni format pristupnika.<ul style="list-style-type: none">• Primjer: postavite glavno računalo na 8: 00010000• Otvorite web-mjesto http://192.168.1.X (X=zbroy svih prekidača postavljenih na ON (Uključeno)).	 <p>The diagram shows the physical layout of the KUNBUS-GW EtherNet/IP module. At the top, there are labels for 'Power', 'MS', 'NS', 'LIA 1', and 'LIA 2'. Below these is a row of eight address switches labeled 'OFF ON' and 'ADDRESS'. A line labeled 'A' points to the first switch. To the right of the switches is a barcode. Below the switches is a 'Bar-Code' label with 'BN VA' and a '24V DV' power source symbol.</p>
2	<p>Otvorite preglednik i unesite IP adresu 192.168.1.X. Podaci za prvu prijavu: Korisnik: Admin Lozinka: 1701 Pritisnite Login (Prijava).</p>	 <p>The screenshot shows the web interface for the KUNBUS-GW EtherNet/IP module. The title is 'KUNBUS-GW EtherNet/IP™'. Below the title, there are two input fields: 'Username:' with the value 'Admin' and 'Password:'. Below the password field is a 'Login' button. At the bottom, there is a link: Download EDS file.</p>

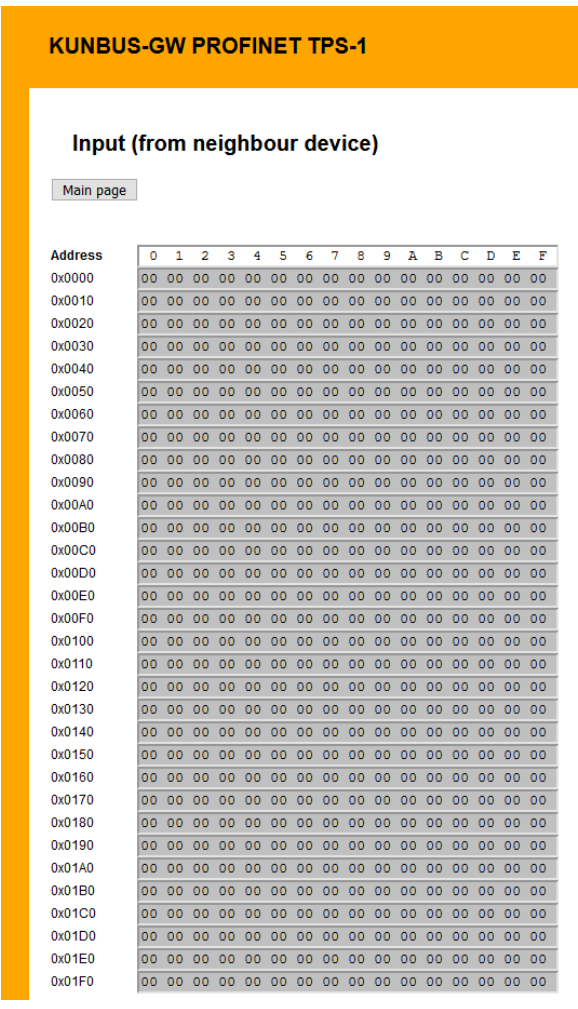
Korak	Opis	Slika																																																																																																																		
3	<p>Kontroler i Ethernet/IP pristupnik prenose područje podataka 0000 - 01BF, što je raspon od 448 bajta ili 112 brojeva s pomičnim zarezom ili 224 cijela broja ili njihova kombinacija, na temelju telegrama tipa Modbus TCP u kontroleru.</p> <p>Napomena: Prikazuje se samo prvi raspon podataka do cijelog broja 32. Pogledajte sve podatke u PLC sustavu (cijeli broj 224).</p> <p>Pritisnite Show (Prikaži).</p>																																																																																																																			
4	<p>Prikazuje se odabrano područje podataka.</p>	 <table border="1"> <thead> <tr> <th colspan="6">ModbusTCP Input and Output</th> </tr> <tr> <th colspan="6">Main page</th> </tr> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1 0x0001</td><td>0</td><td>Output 1 0x0401</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 2 0x0002</td><td>0</td><td>Output 2 0x0402</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 3 0x0003</td><td>0</td><td>Output 3 0x0403</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 4 0x0004</td><td>0</td><td>Output 4 0x0404</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 5 0x0005</td><td>0</td><td>Output 5 0x0405</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 6 0x0006</td><td>0</td><td>Output 6 0x0406</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 7 0x0007</td><td>0</td><td>Output 7 0x0407</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 8 0x0008</td><td>0</td><td>Output 8 0x0408</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 9 0x0009</td><td>0</td><td>Output 9 0x0409</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 10 0x000a</td><td>0</td><td>Output 10 0x040A</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 11 0x000b</td><td>0</td><td>Output 11 0x040B</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 12 0x000c</td><td>0</td><td>Output 12 0x040C</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 13 0x000d</td><td>0</td><td>Output 13 0x040D</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 14 0x000e</td><td>0</td><td>Output 14 0x040E</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 15 0x000f</td><td>0</td><td>Output 15 0x040F</td><td>0</td><td></td><td>Send</td></tr> <tr><td>Input 16 0x0010</td><td>0</td><td>Output 16 0x0410</td><td>0</td><td></td><td>Send</td></tr> </tbody> </table>	ModbusTCP Input and Output						Main page						Address	Value					Input 1 0x0001	0	Output 1 0x0401	0		Send	Input 2 0x0002	0	Output 2 0x0402	0		Send	Input 3 0x0003	0	Output 3 0x0403	0		Send	Input 4 0x0004	0	Output 4 0x0404	0		Send	Input 5 0x0005	0	Output 5 0x0405	0		Send	Input 6 0x0006	0	Output 6 0x0406	0		Send	Input 7 0x0007	0	Output 7 0x0407	0		Send	Input 8 0x0008	0	Output 8 0x0408	0		Send	Input 9 0x0009	0	Output 9 0x0409	0		Send	Input 10 0x000a	0	Output 10 0x040A	0		Send	Input 11 0x000b	0	Output 11 0x040B	0		Send	Input 12 0x000c	0	Output 12 0x040C	0		Send	Input 13 0x000d	0	Output 13 0x040D	0		Send	Input 14 0x000e	0	Output 14 0x040E	0		Send	Input 15 0x000f	0	Output 15 0x040F	0		Send	Input 16 0x0010	0	Output 16 0x0410	0		Send
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Input 10 0x000a	0	Output 10 0x040A	0		Send																																																																																																															
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Input 14 0x000e	0	Output 14 0x040E	0		Send																																																																																																															
Input 15 0x000f	0	Output 15 0x040F	0		Send																																																																																																															
Input 16 0x0010	0	Output 16 0x0410	0		Send																																																																																																															

Korak	Opis	Slika															
5	<p>Pritisnite Change Configuration (Promijeni konfiguraciju) za postavljanje IP adrese.</p>	 <p>KUNBUS-GW EtherNet/IP™ Log Out </p> <p>ModbusTCP Input and Output Modbus Register 0x0011 - 0x0010 and 0x0421 - 0x0410 Show</p> <p>ModbusTCP Input and Output Modbus Register 0x0011 - 0x0020 and 0x0411 - 0x0420 Show</p> <p>ModbusTCP Input and Output Modbus Register 0x0021 - 0x0030 and 0x0421 - 0x0430 Show</p> <p>ModbusTCP Input and Output Modbus Register 0x0031 - 0x0040 and 0x0431 - 0x0440 Show</p> <p>Configuration</p> <p>Serial Number 594</p> <p>Software Version 1.1.0464</p> <p>MAC Address 68-36-37-700-00-10</p> <p>IP Address 192.168.1.8</p> <p>Subnet mask 255.255.255.0</p> <p>Gateway 192.168.1.1</p> <p>DHCP <input checked="" type="checkbox"/> active</p> <p style="text-align: right;"> <input type="button" value="Change Configuration"/> <input type="button" value="Change Password"/> <input type="button" value="Reboot"/> </p> <p>Download EDS file</p>															
6	<p>Promijenite IP adresu prema adresi pristupnika. Za potvrdu pritisnite Apply (Primijeni).</p> <p>Isključite sve dip prekidače. Isključite, a zatim ponovno pokrenite pristupnik. Sada se koristi nova IP adresa.</p>	 <p>KUNBUS-GW EtherNet/IP™</p> <p>Change Configuration</p> <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td><input checked="" type="checkbox"/> active</td> <td><input type="checkbox"/> active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table> <p><input checked="" type="button" value="Apply"/> <input type="button" value="Abort"/></p>		Old Value	New Value	DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0	Gateway	192.168.1.1	192.168.1.1
	Old Value	New Value															
DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active															
IP Address	192.168.1.8	192.168.1.8															
Network Mask	255.255.255.0	255.255.255.0															
Gateway	192.168.1.1	192.168.1.1															

Odjeljak 8 Konfiguracija Profinet pristupnika

Korak	Opis	Slika
1	<ul style="list-style-type: none">• Povežite Profinet pristupnik s računalom putem adaptera LAN-na-LAN.• Pogledajte Uvod na stranici 226. Koristite vezu GATEWAY Profinet IRT Slave. Slijedite upute u korisničkom priručniku proizvođača <i>Komponenta pristupnika za PROFINET</i>.• Pomoću softvera PRONETA postavite naziv na kunbus-gw-profinet.• Unesite korištenu IP adresu.	
2	<p>Otvorite preglednik i unesite IP adresu. Podaci za prvu prijavu:</p> <p>Korisnik: Admin Lozinka: 1701 Pritisnite Login (Prijava).</p>	

Korak	Opis	Slika																
3	Pritisnite Show (Prikaži) (A) za prikaz ulaznih podataka.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
Serial number	4581																	
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Korak	Opis	Slika																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
4	<p>Prikazuje sve podatke poslane s kontrolera na Profinet pristupnik.</p> <p>Kontroler i Profinet pristupnik prenose područje podataka 0000 - 01BF, što je raspon od 448 bajta ili 112 brojeva s pomičnim zarezom ili 224 cijela broja ili njihova kombinacija, na temelju telegrama tipa Modbus TCP u kontroleru.</p>	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input (from neighbour device)</p> <p>Main page</p> <table border="1"> <thead> <tr> <th>Address</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Odjeljak 9 Rješavanje problema

9.1 Rješavanje problema s RevPi

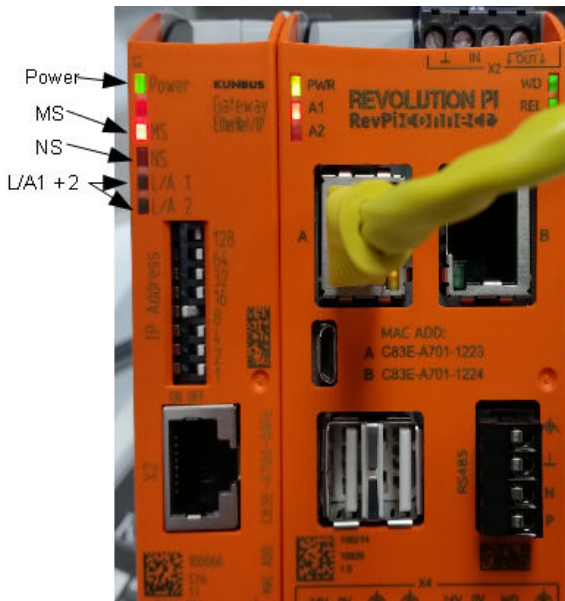
Slika 4 Osnovni modul RevPi



Poruka	Opis	Rješenje
LED-dioda A2 treperi crveno.	Došlo je do prekida komunikacije.	<ul style="list-style-type: none">• Spojite mrežni kabel (kabel ili usmjerivač).• Postavite postavku Modbus adrese u aplikaciji Claros na 1.• Uključite Modbus TCP u izborniku Claros.
LED-dioda A3 sporo treperi crveno.	Konfiguracija Ethernet/IP i Profinet pristupnika je pomiješana.	<p>Pogledajte Pokretanje USB konfiguracije na stranici 228, korak 4 i odaberite ispravnu vrstu pristupnika:</p> <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Rješavanje problema s Ethernet/IP pristupnikom

Slika 5 Ethernet/IP pristupnik

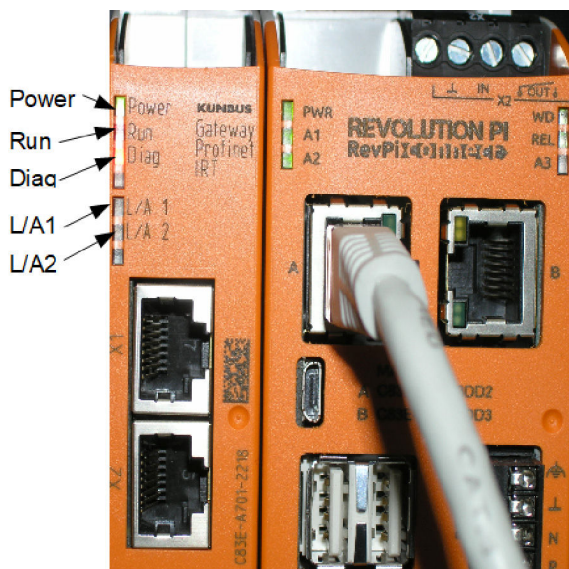


Poruka	Opis	Rješenje
LED-dioda Power je isključena.	Ethernet/IP pristupnik je isključen.	Uključite napajanje.
LED-dioda Power treperi zeleno.	Postupak pokretanja nije dovršen.	Pričekajte nekoliko minuta.
LED-dioda Power treperi crveno.	Ukazuje na upozorenje.	Provjerite jesu li svi uređaji povezani.
LED-dioda Power svijetli crveno.	Ukazuje na pogrešku.	Ethernet/IP pristupnik je neispravan. Zamijenite Ethernet/IP pristupnik.
MS LED-dioda je isključena.	Ethernet/IP pristupnik je isključen.	Uključite napajanje.
MS LED-dioda treperi zeleno.	Postupak konfiguracije nije dovršen.	Pričekajte nekoliko minuta.
MS LED-dioda treperi crveno.	Prikazuje pogrešku s konfiguracijom.	Pogledajte Konfiguracija Ethernet/IP pristupnika na stranici 238 za pregled konfiguracije.
MS LED-dioda svijetli crveno.	Ukazuje na pogrešku.	Ethernet/IP pristupnik je neispravan. Zamijenite Ethernet/IP pristupnik.
MS LED-dioda treperi crveno i zeleno.	Samotestiranje nije dovršeno.	Pričekajte nekoliko minuta.

Poruka	Opis	Rješenje
NS LED-dioda je isključena.	Ethernet/IP pristupnik je isključen ili nema IP adresu.	Uključite napajanje. Postavite IP adresu.
NS LED-dioda treperi zeleno.	IP adresa je postavljena, ali CIP veza nije uspostavljena.	Pričekajte nekoliko minuta.
NS LED-dioda treperi crveno.	CIP veza je prekinuta.	Provjerite postoji li vremensko ograničenje.
NS LED-dioda svijetli crveno.	Drugi uređaj koristi odabranu IP adresu.	Promijenite IP adresu na jedinstvenu IP adresu.
L/A 1 ili 2 LED-dioda je isključena.	Nema veze s drugim uređajima.	Povežite se s uređajem.
LED-dioda L/A 1 ili 2 je isključena.	Nema razmjene podataka.	Pričekajte do sljedeće razmjene podataka.

9.3 Rješavanje problema s Profinet pristupnikom

Slika 6 Profinet pristupnik



Poruka	Opis	Rješenje
LED-dioda Power je isključena.	Profinet pristupnik je isključen.	Uključite napajanje.
LED-dioda Power treperi zeleno.	Postupak pokretanja nije dovršen.	Pričekajte nekoliko minuta.
LED-dioda Power treperi crveno.	Ukazuje na upozorenje.	Provjerite jesu li svi uređaji postavljeni.

Poruka	Opis	Rješenje
LED-dioda Power svijetli crveno.	Ukazuje na pogrešku.	Profinet pristupnik je neispravan. Zamijenite Profinet pristupnik.
LED-dioda Run je isključena.	Nema veze s mrežom.	Povežite se na mrežu.
LED-dioda Run treperi zeleno.	Profinet kontroler je povezan, ali nema razmjene podataka.	Pričekajte do sljedeće razmjene podataka.
LED-dioda Run sporo treperi zeleno.	Ovo uzrokuje alat za identifikaciju komponente pristupnika.	Pričekajte nekoliko minuta.
LED-dioda Diag treperi crveno.	Ovo uzrokuje alat za identifikaciju komponente pristupnika.	Pričekajte nekoliko minuta.
LED-dioda Diag brzo treperi crveno.	Nema veze s kontrolerom. U modulu nije postavljen naziv Profinet pristupnika.	Pogledajte Konfiguracija Profinet pristupnika na stranici 241 za postavljanje naziva.
LED-dioda Diag svijetli crveno.	Uređaj pristupnika prijavljuje dijagnostičke podatke.	Pogledajte dijagnostičko izvješće.
L/A 1 ili 2 LED-dioda je isključena.	Nema veze s mrežom.	Povežite se na mrežu.
LED-dioda L/A 1 ili 2 je isključena.	Razmjena podataka.	Pričekajte dok se razmjena podataka ne dovrši.

Πίνακας περιεχομένων

- | | |
|--|---|
| 1 Προβλεπόμενη χρήση στη σελίδα 248 | 6 Ρύθμιση του τηλεγραφήματος Modbus TCP του ελεγκτή SC1500 στη σελίδα 258 |
| 2 Εισαγωγή στη σελίδα 248 | 7 Διαμόρφωση της πύλης Ethernet/IP στη σελίδα 261 |
| 3 Έναρξη της διαμόρφωσης USB στη σελίδα 250 | 8 Διαμόρφωση της πύλης Profinet στη σελίδα 264 |
| 4 Παραδείγματα εγκατάστασης στη σελίδα 252 | 9 Αντιμετώπιση προβλημάτων στη σελίδα 267 |
| 5 Ρύθμιση του τηλεγραφήματος Modbus TCP του ελεγκτή SC4200c στη σελίδα 255 | |

Ενότητα 1 Προβλεπόμενη χρήση

Αυτές οι οδηγίες ρύθμισης προορίζονται για χρήση από άτομα που ενσωματώνουν εξωτερική πύλη Ethernet/IP ή πύλη Profinet ως στοιχεία υλικού στο δίκτυο Claros.

Ενότητα 2 Εισαγωγή

Ο κατασκευαστής δεν φέρει ευθύνη για τυχόν ζημιές εξαιτίας της λανθασμένης εφαρμογής ή χρήσης του παρόντος προϊόντος, συμπεριλαμβανομένων, χωρίς περιορισμό, των άμεσων, συμπτωματικών και παρεπόμενων ζημιών, και αποποιείται την ευθύνη για τέτοιες ζημιές στο μέγιστο βαθμό που επιτρέπει το εφαρμοστέο δίκαιο. Ο χρήστης είναι αποκλειστικά υπεύθυνος για την αναγνώριση των σημαντικών κινδύνων εφαρμογής και την εγκατάσταση των κατάλληλων μηχανισμών για την προστασία των διαδικασιών κατά τη διάρκεια μιας πιθανής δυσλειτουργίας του εξοπλισμού.

⚠ ΚΙΝΔΥΝΟΣ



Κίνδυνος ηλεκτροπληξίας. Πριν πραγματοποιήσετε οποιεσδήποτε ηλεκτρικές συνδέσεις, να αποσυνδέετε πάντοτε το όργανο από την τροφοδοσία ρεύματος.

Απαιτούμενα στοιχεία:

- USB stick μορφοποιημένο ως FAT32
- Υπολογιστής με Windows¹ 10
- Μονάδα:
 - Για υλοποίηση Ethernet/IP:
 - LXZ446.99.00001: ΠΥΛΗ IIoT RevPi Βασική μονάδα
 - LXZ446.99.00002: ΠΥΛΗ Ethernet/IP Δευτερεύουσα μονάδα
 - LXZ446.99.00003: Βραχυκυκλωτής για PiBridge
 - Για υλοποίηση Profinet:
 - LXZ446.99.00001: ΠΥΛΗ IIoT RevPi Βασική μονάδα
 - LXZ446.99.00007: ΠΥΛΗ Profinet IRT Δευτερεύουσα μονάδα
 - LXZ446.99.00003: Βραχυκυκλωτής για PiBridge

Συνδέστε τις τρεις μονάδες RevPi, δευτερεύουσα μονάδα και PiBridge στην τροφοδοσία και το LAN.

Ανατρέξτε στους συνδέσμους στον πίνακα που ακολουθεί για περισσότερες πληροφορίες από τον κατασκευαστή των μονάδων.

¹ Το Microsoft® Windows® είναι σήμα κατατεθέν της Microsoft Corporation στις Ηνωμένες Πολιτείες και σε άλλες χώρες.

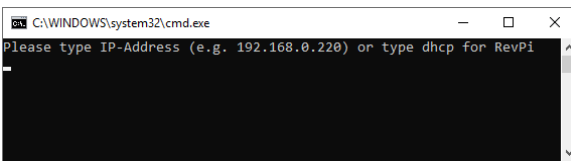
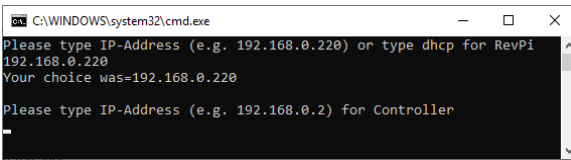
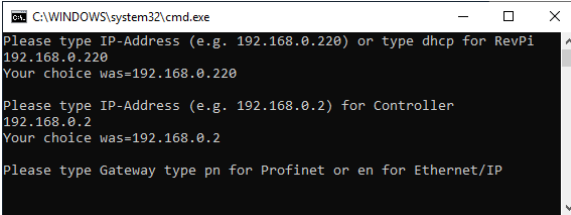
Μονάδα	Σύνδεσμος
ΠΥΛΗ Profinet IRT Δευτερεύουσα μονάδα	https://www.kunbus.com/profinet-irt-gateway-module.html
ΠΥΛΗ Ethernet/IP Δευτερεύουσα μονάδα	https://www.kunbus.com/ethernet-ip-gateway-module.html
ΠΥΛΗ IIoT RevPi Βασική μονάδα	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
Τρόπος σύνδεσης μονάδων RevPi	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Τρόπος εγκατάστασης μονάδων RevPi σε σειρά DIN	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Τρόπος σύνδεσης του τροφοδοτικού	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

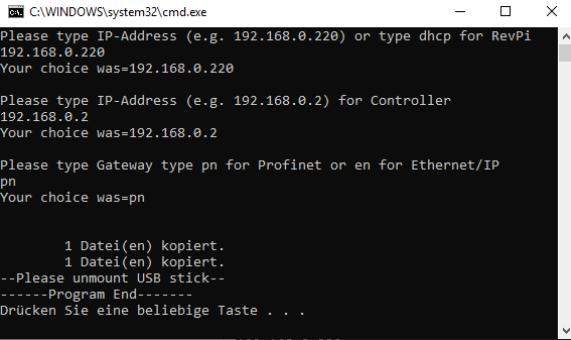


Προετοιμασία του USB stick

1. Τοποθετήστε ένα κενό USB stick στον υπολογιστή.
2. Μεταβείτε στη διεύθυνση <https://www.hach.com> και αναζητήστε τις λέξεις-κλειδιά "usb ethernet/IP installation" (εγκατάσταση ethernet/IP μέσω usb) ή "usb profinet installation" (εγκατάσταση profinet μέσω usb).
3. Πραγματοποιήστε λήψη του USB_ETHIP_PRNET.zip.
4. Αποσυμπίεστε το αρχείο στον κύριο κατάλογο αρχείων του USB stick.

Ενότητα 3 Έναρξη της διαμόρφωσης USB

Τοποθετήστε το προετοιμασμένο USB stick στον υπολογιστή.

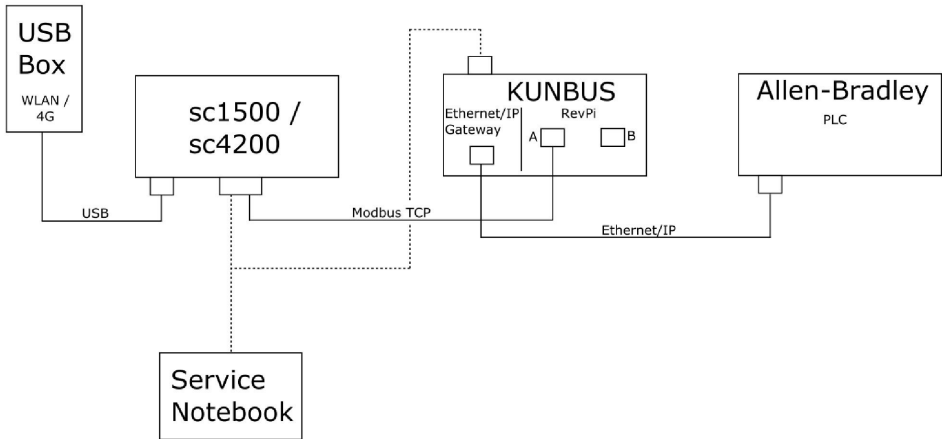
Βήμα	Περιγραφή	Εικόνα
1	Εκκινήστε το start_usb_config.bat. Ανοίγει ένα παράθυρο τερματικού. Ακολουθήστε τον αναλυτικό οδηγό.	
2	Εισαγάγετε τη διεύθυνση IP της μονάδας RevPi.	
3	Εισαγάγετε τη διεύθυνση IP του ελεγκτή SC. Βεβαιωθείτε ότι το πρόθρημα δικτύου είναι το ίδιο με αυτό από τη μονάδα RevPi (π.χ., 192.168.0). Βεβαιωθείτε ότι το αναγνωριστικό κεντρικού υπολογιστή είναι διαφορετικό από τη μονάδα RevPi (π.χ., 220 RevPi, 2 ελεγκτής).	
4	Εισαγάγετε τον τύπο πύλης: <ul style="list-style-type: none">• pn—Profinet• en—Ethernet/IP	

Βήμα	Περιγραφή	Εικόνα
5	<p>Επιβεβαιώστε τις ρυθμίσεις με το Enter. Αφαιρέστε το USB stick.</p>	
6	<p>Τοποθετήστε το USB stick στην αριστερή υποδοχή USB της μονάδας RevPi.</p>	
7	<p>Περιγραφή λυχνιών LED:</p> <ul style="list-style-type: none"> • A1/A2 πορτοκαλί: Η εγκατάσταση του RevPi ξεκινά. • A1 κόκκινη, A2 σβηστή: Τοποθετήστε το USB stick στο RevPi. • A1 πράσινη, A2 σβηστή: Το USB stick τοποθετήθηκε επιτυχώς. • A1 σβηστή, A2 πράσινη: Το RevPi πραγματοποιεί λήψη/αποστολή δεδομένων από το USB stick. • A3 κόκκινη: Το RevPi επανεκκινείται. <p>Όταν η A3 είναι κόκκινη, αφαιρέστε το USB stick.</p>	
8	<p>Οι ρυθμίσεις του RevPi έχουν ολοκληρωθεί.</p>	

Ενότητα 4 Παραδείγματα εγκατάστασης

Η **Εικόνα 1** δείχνει μια εγκατάσταση με δύο διαφορετικές συνδέσεις LAN.

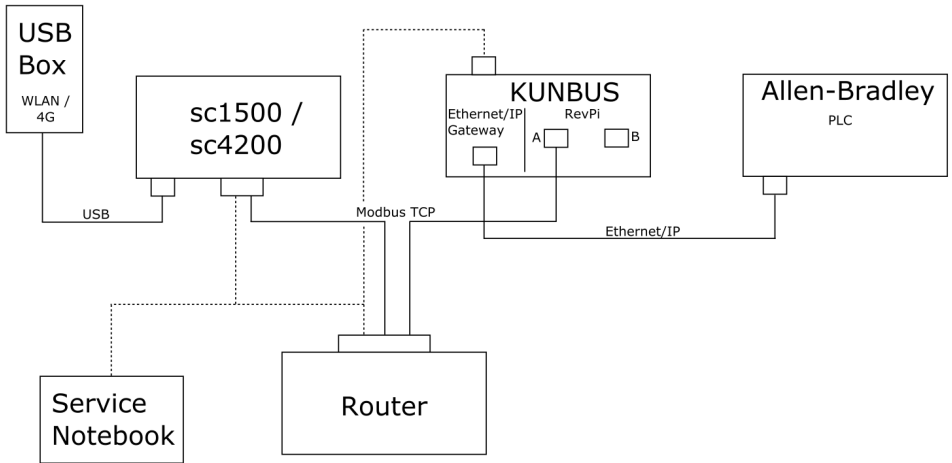
Εικόνα 1 Παράδειγμα 1



- Τα Modbus TCP και Ethernet/IP χρησιμοποιούν δύο διαφορετικές συνδέσεις LAN.
- Όλες οι συσκευές έχουν στατική διεύθυνση IP.
- Ο ελεγκτής έχει πρόσβαση στο Internet με σύνδεση κινητής τηλεφωνίας ή WiFi.
- Για να ρυθμίσετε τις διευθύνσεις IP του ελεγκτή και της πύλης Ethernet/IP, απαιτείται ένας φορητός υπολογιστής.

Η **Εικόνα 2** δείχνει μια εγκατάσταση με τον δρομολογητή για τη σύνδεση Modbus TCP.

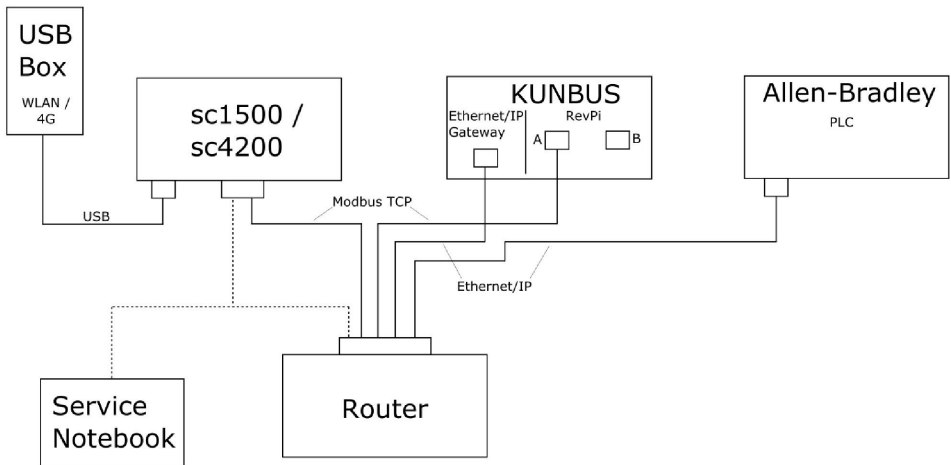
Εικόνα 2 Παράδειγμα 2



- Το Modbus TCP είναι συνδεδεμένο στον δρομολογητή.
- Όλες οι συσκευές έχουν στατική διεύθυνση IP ή ο δρομολογητής ρυθμίζει τη διεύθυνση IP μέσω DHCP.
***Σημείωση:** Βεβαιωθείτε ότι ο δρομολογητής χρησιμοποιεί πάντα την ίδια διεύθυνση IP για τις ίδιες συσκευές (MAC), εάν χρησιμοποιείται το DHCP.*
- Ο ελεγκτής έχει πρόσβαση στο Internet με σύνδεση κινητής τηλεφωνίας ή WiFi.
- Για να ρυθμίσετε τη διεύθυνση IP του ελεγκτή, την πύλη Ethernet/IP και τις ρυθμίσεις του δρομολογητή, απαιτείται ένας φορητός υπολογιστής.

Η **Εικόνα 3** δείχνει μια εγκατάσταση με δρομολογητή ή διακόπτη για όλες τις συσκευές.

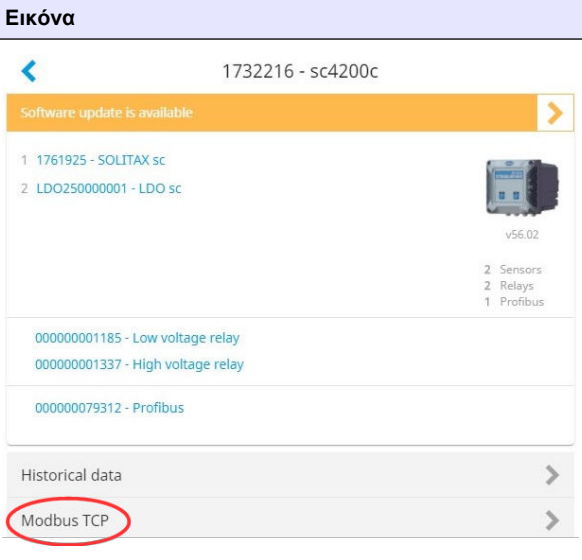
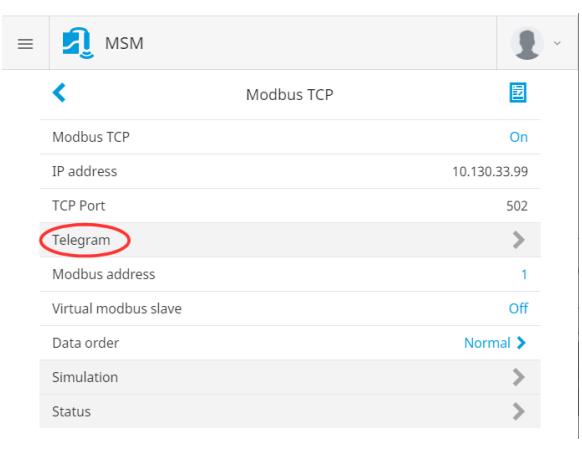
Εικόνα 3 Παράδειγμα 3

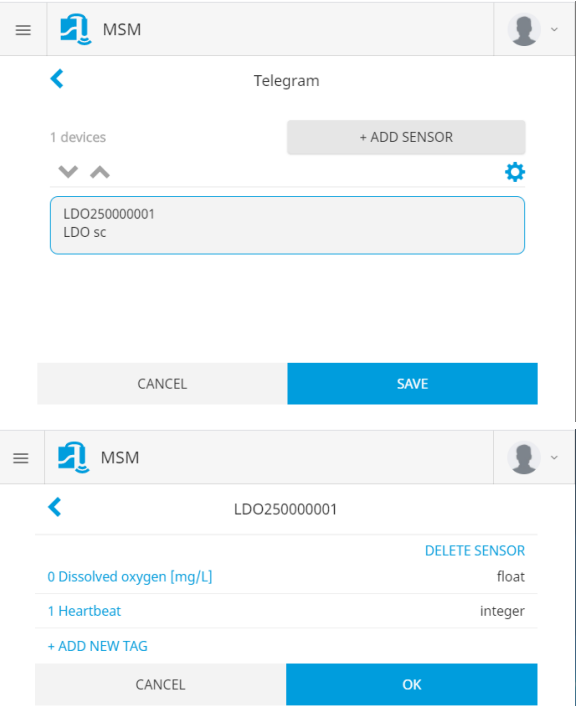


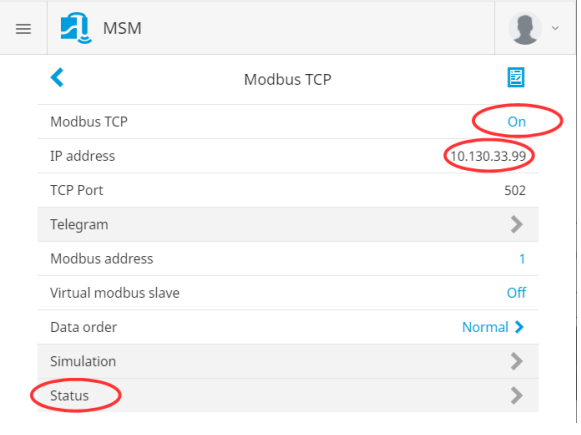
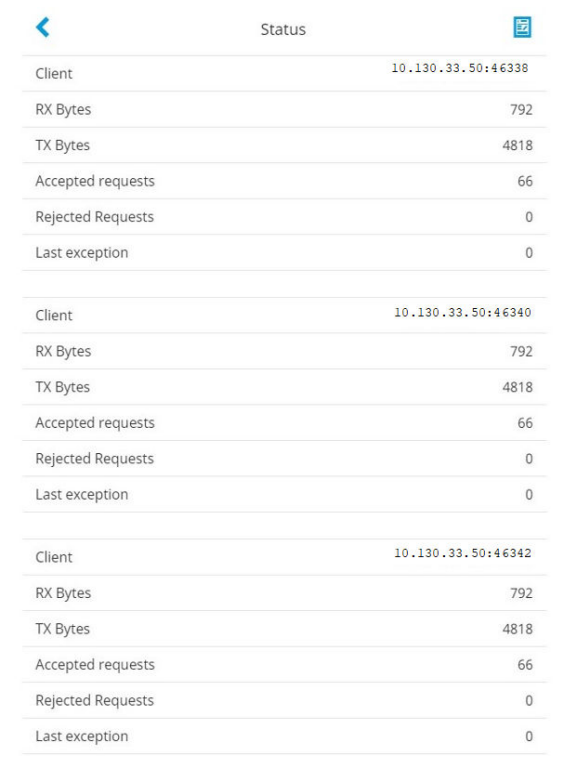
- Όλες οι συσκευές είναι συνδεδεμένες με δρομολογητή ή διακόπτη.
- Όλες οι συσκευές έχουν στατική διεύθυνση IP ή ο δρομολογητής ή ο διακόπτης ρυθμίζει τη διεύθυνση IP μέσω DHCP.
Σημείωση: Βεβαιωθείτε ότι ο δρομολογητής χρησιμοποιεί πάντα την ίδια διεύθυνση IP για τις ίδιες συσκευές (MAC), εάν χρησιμοποιείται το DHCP.
- Ο ελεγκτής έχει πρόσβαση στο Internet με σύνδεση κινητής τηλεφωνίας ή WiFi.
- Για να ρυθμίσετε τη διεύθυνση IP του ελεγκτή και τις ρυθμίσεις του δρομολογητή, απαιτείται ένας φορητός υπολογιστής.

Ενότητα 5 Ρύθμιση του τηλεγράφηματος Modbus TCP του ελεγκτή SC4200c

Εκκινήστε την εφαρμογή Clagos και ακολουθήστε τον αναλυτικό οδηγό.

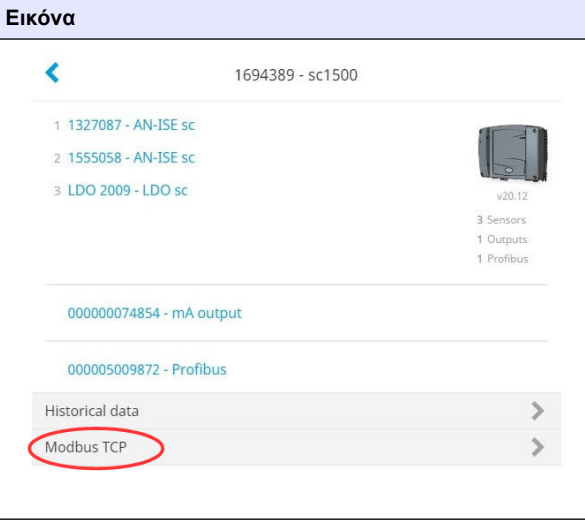
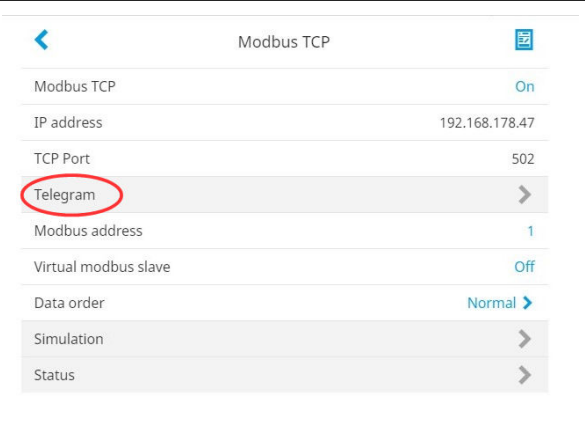
Βήμα	Περιγραφή	Εικόνα
1	Επιλέξτε το μενού ελεγκτή και κατόπιν πατήστε Modbus TCP .	
2	Επιλέξτε Telegram (Τηλεγράφημα) για να ρυθμίσετε το τηλεγράφημα Modbus TCP.	

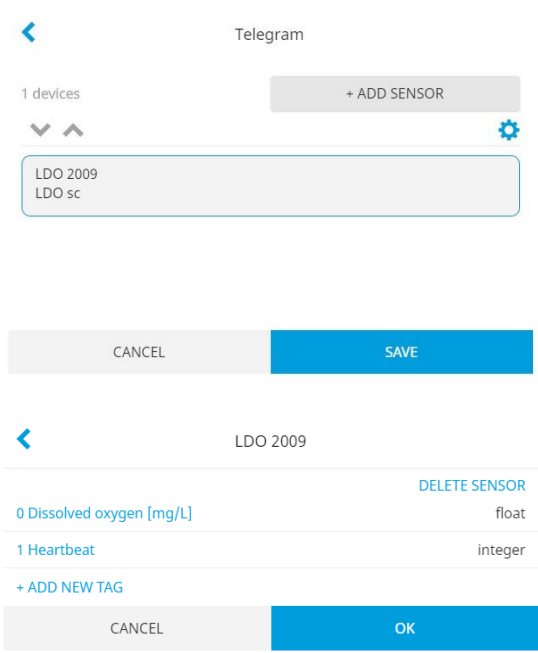
Βήμα	Περιγραφή	Εικόνα
3	<p>Το τηλεγράφημα που απεικονίζεται αποτελεί παράδειγμα του αισθητήρα LDO sc.</p> <p>Ρυθμίστε το Heartbeat (καρδιακοί παλμοί) σε ακέραιο. Το Heartbeat (καρδιακοί παλμοί) αποτελεί έναν μετρητή που δείχνει την ενημέρωση της τιμής σε δευτερολέπτο.</p> <p>Σημείωση: Το περιεχόμενο του τηλεγραφήματος Modbus TCP είναι το ίδιο με αυτό του τηλεγραφήματος Profibus.</p>	

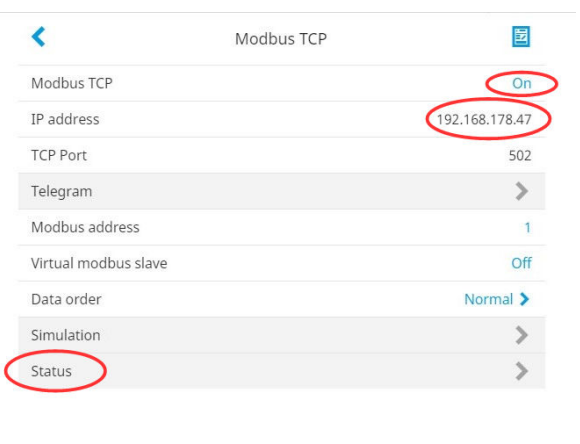
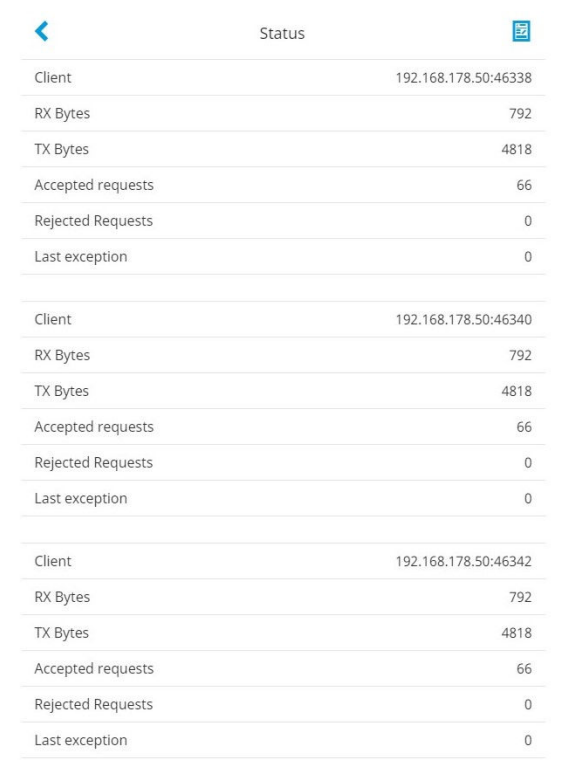
Βήμα	Περιγραφή	Εικόνα
4	<p>Το μενού Modbus TCP εμφανίζει τη διεύθυνση IP του ελεγκτή. Η διεύθυνση 10.130.33.99 είναι η διεύθυνση IP που έχει οριστεί στο μενού service του ελεγκτή. Ρυθμίστε το Modbus TCP σε On (Ενεργό) και κατόπι πατήστε Status (Κατάσταση).</p>	 <p>The screenshot shows the 'Modbus TCP' configuration page. At the top, there is a menu icon, the 'MSM' logo, and a user profile icon. Below this, the page title is 'Modbus TCP'. The configuration items are: 'Modbus TCP' (set to 'On'), 'IP address' (set to '10.130.33.99'), 'TCP Port' (set to '502'), 'Telegram' (with a right arrow), 'Modbus address' (set to '1'), 'Virtual modbus slave' (set to 'Off'), 'Data order' (set to 'Normal' with a right arrow), 'Simulation' (with a right arrow), and 'Status' (with a right arrow). The 'On' status, the IP address, and the 'Status' option are circled in red.</p>
5	<p>Το μενού Status (Κατάσταση) εμφανίζει τα στατιστικά στοιχεία Modbus TCP. Η διεύθυνση 10.130.33.50 είναι η διεύθυνση IP της μονάδας RevPi. Το RevPi διαθέτει κύριο 5 Modbus TCP.</p>	 <p>The screenshot shows the 'Status' page with three sections of statistics for different clients. Each section lists: Client (10.130.33.50:46338, 10.130.33.50:46340, and 10.130.33.50:46342), RX Bytes (792), TX Bytes (4818), Accepted requests (66), Rejected Requests (0), and Last exception (0).</p>

Ενότητα 6 Ρύθμιση του τηλεγραφήματος Modbus TCP του ελεγκτή SC1500

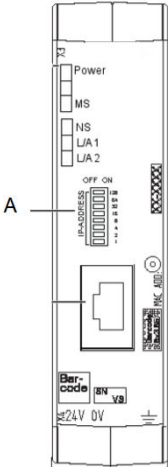
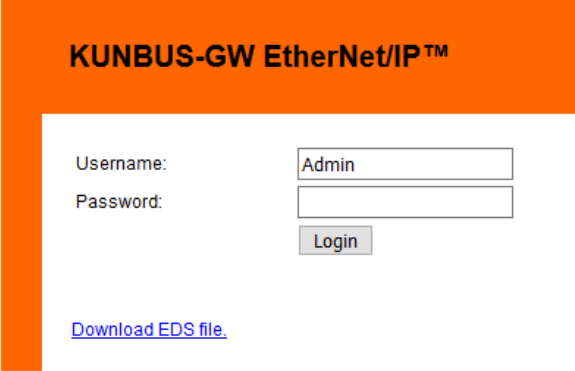
Εκκινήστε την εφαρμογή Claros και ακολουθήστε τον αναλυτικό οδηγό.

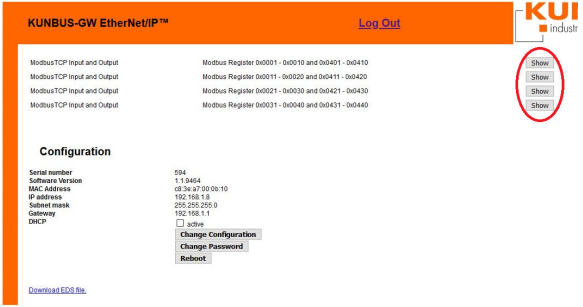
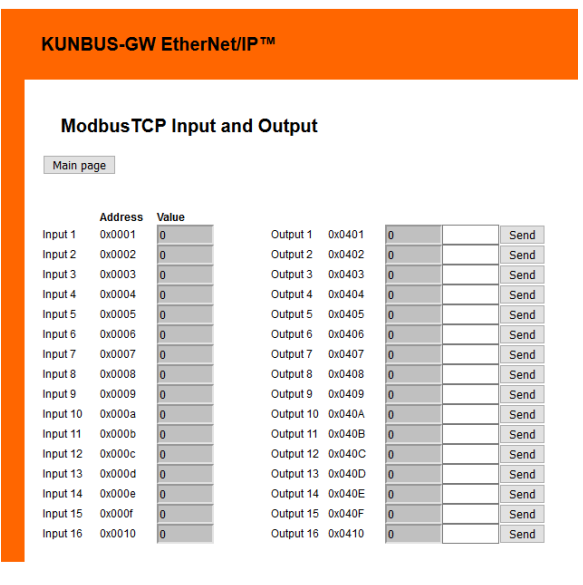
Βήμα	Περιγραφή	Εικόνα
1	Επιλέξτε το μενού ελεγκτή και κατόπιν πατήστε Modbus TCP .	 <p>The screenshot shows the configuration page for a device with ID 1694389 - sc1500. It lists three sensors: 1327087 - AN-ISE sc, 1555058 - AN-ISE sc, and LDO 2009 - LDO sc. Below the sensors, there are two output options: 00000074854 - mA output and 00005009872 - Profibus. At the bottom, there are two menu items: 'Historical data' and 'Modbus TCP', both with right-pointing arrows. The 'Modbus TCP' item is circled in red.</p>
2	Επιλέξτε Telegram (Τηλεγράφημα) για να ρυθμίσετε το τηλεγράφημα Modbus TCP.	 <p>The screenshot shows the configuration page for 'Modbus TCP'. It has a toggle switch for 'Modbus TCP' which is turned 'On'. Below it are fields for 'IP address' (192.168.178.47), 'TCP Port' (502), 'Modbus address' (1), and 'Virtual modbus slave' (Off). There are also options for 'Data order' (Normal) and 'Simulation' (Off). At the bottom, there is a 'Status' field. The 'Telegram' option, which is a menu item with a right-pointing arrow, is circled in red.</p>

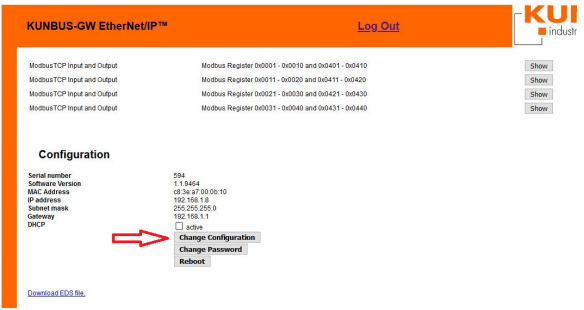
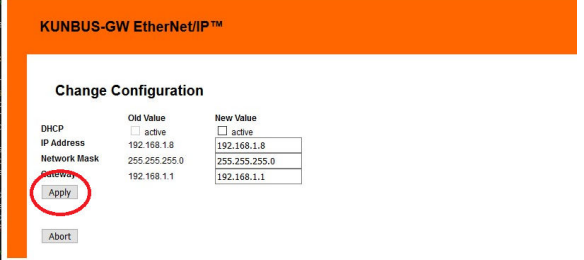
Βήμα	Περιγραφή	Εικόνα
3	<p>Το τηλεγράφημα που απεικονίζεται αποτελεί παράδειγμα του αισθητήρα LDO sc.</p> <p>Ρυθμίστε το Heartbeat (καρδιακοί παλμοί) σε ακέραιο. Το Heartbeat (καρδιακοί παλμοί) αποτελεί έναν μετρητή που δείχνει την ενημέρωση της τιμής σε βήματα ενός δευτερολέπτου.</p> <p><i>Σημείωση: Το περιεχόμενο του τηλεγραφήματος Modbus TCP είναι το ίδιο με αυτό του τηλεγραφήματος Profibus.</i></p>	 <p>The image contains two screenshots of a Telegram interface. The top screenshot shows the 'Telegram' screen with a back arrow, the title 'Telegram', and a list of devices. The first device is 'LDO 2009 LDO sc'. There is a '+ ADD SENSOR' button and a gear icon. At the bottom are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the 'LDO 2009' configuration screen with a back arrow, the title 'LDO 2009', and a 'DELETE SENSOR' link. It lists two tags: '0 Dissolved oxygen [mg/L]' with a 'float' unit and '1 Heartbeat' with an 'integer' unit. There is a '+ ADD NEW TAG' link. At the bottom are 'CANCEL' and 'OK' buttons.</p>

Βήμα	Περιγραφή	Εικόνα																												
4	<p>Το μενού Modbus TCP εμφανίζει τη διεύθυνση IP του ελεγκτή. Η διεύθυνση 192.168.178.47 είναι η διεύθυνση IP που έχει οριστεί στο μενού service του ελεγκτή.</p> <p>Ρυθμίστε το Modbus TCP σε On (Ενεργό) και κατόπιν πατήστε Status (Κατάσταση).</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. The status is set to 'On', the IP address is '192.168.178.47', and the 'Status' menu item is highlighted with a red circle.</p>																												
5	<p>Το μενού Status (Κατάσταση) εμφανίζει τα στατιστικά στοιχεία Modbus TCP. Η διεύθυνση 192.168.178.50 είναι η διεύθυνση IP της μονάδας RevPi. Το RevPi διαθέτει κύριο 7 Modbus TCP.</p>	 <p>The screenshot shows the 'Status' screen with statistics for three clients. The IP address '192.168.178.50' is highlighted in red.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>IP Address</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>Client</td> <td>192.168.178.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>Client</td> <td>192.168.178.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>Client</td> <td>192.168.178.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	IP Address	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	Client	192.168.178.50:46338	792	4818	66	0	0	Client	192.168.178.50:46340	792	4818	66	0	0	Client	192.168.178.50:46342	792	4818	66	0	0
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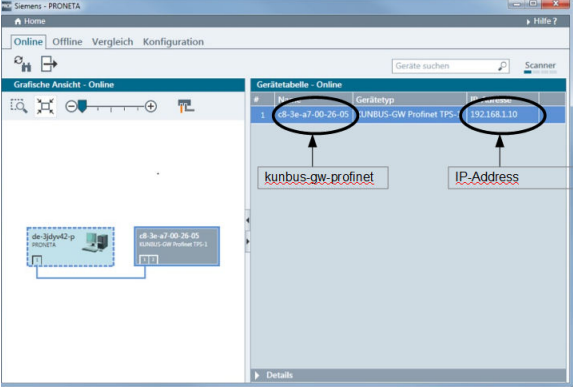
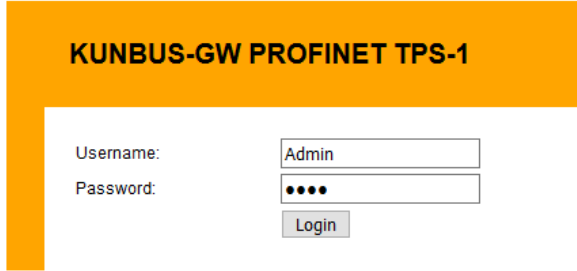
Ενότητα 7 Διαμόρφωση της πύλης Ethernet/IP

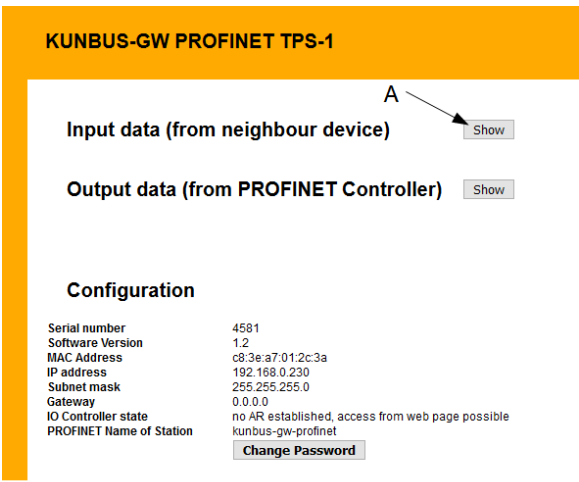
Βήμα	Περιγραφή	Εικόνα
1	<ul style="list-style-type: none">• Συνδέστε την πύλη Ethernet/IP στον υπολογιστή με τον προσαρμογέα καλωδίου LAN σε USB.• Βλ. Εισαγωγή στη σελίδα 248. Χρησιμοποιήστε τον σύνδεσμο της ΠΥΛΗΣ Ethernet/IP δευτερεύουσας μονάδας. Ακολουθήστε την οδηγία στο εγχειρίδιο χρήστη του κατασκευαστή <i>Στοιχείο πύλης για EtherNet/IP</i>.• Χρησιμοποιήστε τον διακόπτη διεύθυνσης 8 ακίδων (A) για να ρυθμίσετε το αναγνωριστικό κεντρικού υπολογιστή στη δυαδική μορφή της Πύλης.<ul style="list-style-type: none">• Παράδειγμα: Ρυθμίστε τον κεντρικό υπολογιστή σε 8: 00010000• Ανοίξτε την τοποθεσία Web http://192.168.1.X [X=Άθροισμα όλων των διακοπών που έχουν οριστεί σε ON (Ενεργοποίηση)].	 <p>The diagram shows the front panel of the KUNBUS-GW EtherNet/IP device. It features a power switch, a USB port, and two LAN ports (LIA 1 and LIA 2). A central 8-pin DIP switch is labeled 'A' and is used for setting the central computer ID. Below the switch is a barcode and a label with '24V 0V' and a power symbol.</p>
2	<p>Ανοίξτε το πρόγραμμα περιήγησης και εισαγάγετε τη διεύθυνση IP 192.168.1.X. Δεδομένα σύνδεσης για την πρώτη σύνδεση:</p> <p>Χρήστης: Admin Κωδικός πρόσβασης: 1701 Πατήστε Login (Σύνδεση).</p>	 <p>The screenshot shows the login interface for the KUNBUS-GW EtherNet/IP device. It has an orange header with the device name. Below it, there are input fields for 'Username:' (containing 'Admin') and 'Password:', followed by a 'Login' button. A link for 'Download EDS file.' is located at the bottom.</p>

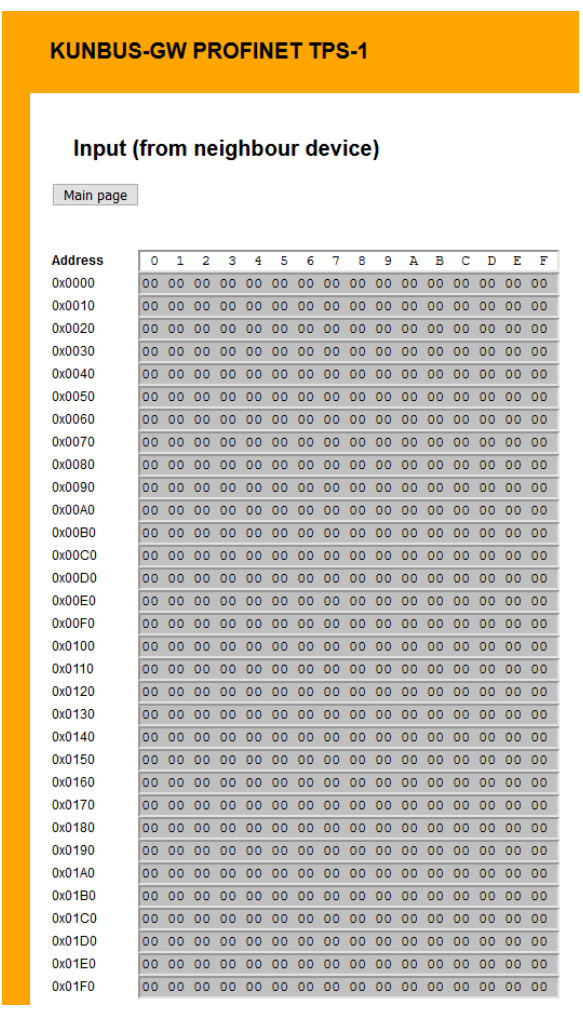
Βήμα	Περιγραφή	Εικόνα																																																																																					
3	<p>Ο ελεγκτής και η πύλη Ethernet/IP μεταφέρουν την περιοχή δεδομένων 0000 - 01BF, που έχει εύρος 448 byte ή κινητή υποδιαστολή 112 ή ακέραιος αριθμός 224 ή ένας συνδυασμός αυτών, βάσει του τύπου τηλεγραφήματος του Modbus TCP στον ελεγκτή.</p> <p>Σημείωση: Εμφανίζεται μόνο η πρώτη περιοχή δεδομένων έως τον ακέραιο 32. Προβάλετε όλα τα δεδομένα στο PLC (ακέραιος 224).</p> <p>Πατήστε Show (Εμφάνιση).</p>																																																																																						
4	<p>Εμφανίζεται η επιλεγμένη περιοχή δεδομένων.</p>	 <table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1</td><td>0x0001</td><td>0</td><td>Output 1</td><td>0x0401</td></tr> <tr><td>Input 2</td><td>0x0002</td><td>0</td><td>Output 2</td><td>0x0402</td></tr> <tr><td>Input 3</td><td>0x0003</td><td>0</td><td>Output 3</td><td>0x0403</td></tr> <tr><td>Input 4</td><td>0x0004</td><td>0</td><td>Output 4</td><td>0x0404</td></tr> <tr><td>Input 5</td><td>0x0005</td><td>0</td><td>Output 5</td><td>0x0405</td></tr> <tr><td>Input 6</td><td>0x0006</td><td>0</td><td>Output 6</td><td>0x0406</td></tr> <tr><td>Input 7</td><td>0x0007</td><td>0</td><td>Output 7</td><td>0x0407</td></tr> <tr><td>Input 8</td><td>0x0008</td><td>0</td><td>Output 8</td><td>0x0408</td></tr> <tr><td>Input 9</td><td>0x0009</td><td>0</td><td>Output 9</td><td>0x0409</td></tr> <tr><td>Input 10</td><td>0x000a</td><td>0</td><td>Output 10</td><td>0x040A</td></tr> <tr><td>Input 11</td><td>0x000b</td><td>0</td><td>Output 11</td><td>0x040B</td></tr> <tr><td>Input 12</td><td>0x000c</td><td>0</td><td>Output 12</td><td>0x040C</td></tr> <tr><td>Input 13</td><td>0x000d</td><td>0</td><td>Output 13</td><td>0x040D</td></tr> <tr><td>Input 14</td><td>0x000e</td><td>0</td><td>Output 14</td><td>0x040E</td></tr> <tr><td>Input 15</td><td>0x000f</td><td>0</td><td>Output 15</td><td>0x040F</td></tr> <tr><td>Input 16</td><td>0x0010</td><td>0</td><td>Output 16</td><td>0x0410</td></tr> </tbody> </table>	Address	Value				Input 1	0x0001	0	Output 1	0x0401	Input 2	0x0002	0	Output 2	0x0402	Input 3	0x0003	0	Output 3	0x0403	Input 4	0x0004	0	Output 4	0x0404	Input 5	0x0005	0	Output 5	0x0405	Input 6	0x0006	0	Output 6	0x0406	Input 7	0x0007	0	Output 7	0x0407	Input 8	0x0008	0	Output 8	0x0408	Input 9	0x0009	0	Output 9	0x0409	Input 10	0x000a	0	Output 10	0x040A	Input 11	0x000b	0	Output 11	0x040B	Input 12	0x000c	0	Output 12	0x040C	Input 13	0x000d	0	Output 13	0x040D	Input 14	0x000e	0	Output 14	0x040E	Input 15	0x000f	0	Output 15	0x040F	Input 16	0x0010	0	Output 16	0x0410
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Input 15	0x000f	0	Output 15	0x040F																																																																																			
Input 16	0x0010	0	Output 16	0x0410																																																																																			

Βήμα	Περιγραφή	Εικόνα
5	<p>Πατήστε Change Configuration (Αλλαγή διαμόρφωσης) για να ρυθμίσετε τη διεύθυνση IP.</p>	
6	<p>Αλλάξτε τη διεύθυνση IP ανάλογα με τη διεύθυνση πύλης.</p> <p>Πατήστε Apply (Εφαρμογή) για επιβεβαίωση.</p> <p>Ρυθμίστε όλους τους διακόπτες DIP σε απενεργοποίηση.</p> <p>Ρυθμίστε τη λειτουργία της πύλης σε απενεργοποιημένη και κατόπιν κάνετε επανεκκίνηση. Τώρα χρησιμοποιείται η νέα διεύθυνση IP.</p>	

Ενότητα 8 Διαμόρφωση της πύλης Profinet

Βήμα	Περιγραφή	Εικόνα
1	<ul style="list-style-type: none"> • Συνδέστε την πύλη Profinet στον υπολογιστή με τον προσαρμογέα LAN σε LAN. • Βλ. Εισαγωγή στη σελίδα 248. Χρησιμοποιήστε τον σύνδεσμο της ΠΥΛΗΣ Profinet IRT δευτερεύουσας μονάδας. Ακολουθήστε την οδηγία στο εγχειρίδιο χρήστη του κατασκευαστή <i>Στοιχείο πύλης για PROFINET</i>. • Χρησιμοποιήστε το λογισμικό PRONETA για να ορίσετε το όνομα σε kunbus-gw-profinet. • Εισαγάγετε τη χρησιμοποιημένη διεύθυνση IP. 	
2	<p>Ανοίξτε το πρόγραμμα περιήγησης και εισάγετε τη διεύθυνση IP. Δεδομένα σύνδεσης για την πρώτη σύνδεση: Χρήστης: Admin Κωδικός πρόσβασης: 1701 Πατήστε Login (Σύνδεση).</p>	

Βήμα	Περιγραφή	Εικόνα																
3	<p>Πατήστε Show (Εμφάνιση) (A) για να εμφανίσετε τα δεδομένα εισόδου.</p>	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
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4	<p>Εμφανίζει όλα τα δεδομένα που αποστέλλονται από τον ελεγκτή στην πύλη Profinet.</p> <p>Ο ελεγκτής και η πύλη Profinet μεταφέρουν την περιοχή δεδομένων 0000 - 01BF, που έχει εύρος 448 byte ή κινητή υποδιαστολή 112 ή ακέραιος αριθμός 224 ή ένας συνδυασμός αυτών, βάσει του τύπου τηλεγραφήματος του Modbus TCP στον ελεγκτή.</p>	 <p style="text-align: center;">KUNBUS-GW PROFINET TPS-1</p> <p style="text-align: center;">Input (from neighbour device)</p> <p style="text-align: center;">Main page</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Address</th> <th>0</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th> </tr> </thead> <tbody> 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Ενότητα 9 Αντιμετώπιση προβλημάτων

9.1 Αντιμετώπιση προβλημάτων για το RevPi

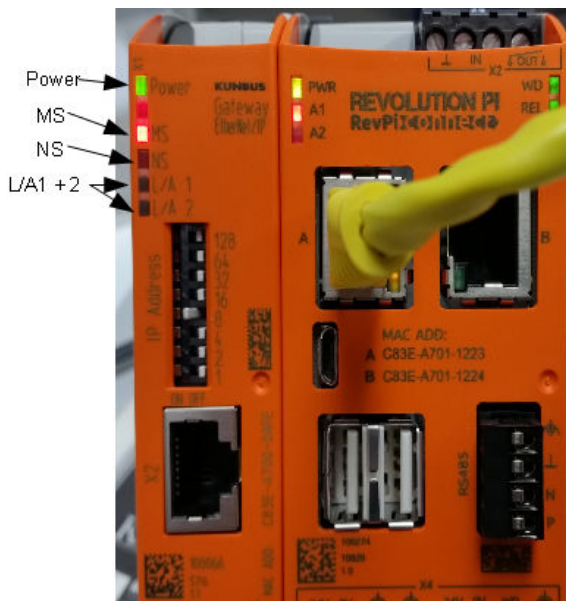
Εικόνα 4 Βασική μονάδα RevPi



Μήνυμα	Περιγραφή	Λύση
Η λυχνία LED A2 αναβοσβήνει με κόκκινο χρώμα.	Η επικοινωνία έχει διακοπεί.	<ul style="list-style-type: none">• Συνδέστε το καλώδιο δικτύου (καλώδιο ή δρομολογητής).• Ορίστε τη ρύθμιση διεύθυνσης Modbus στο Claros σε 1.• Ορίστε το Modbus TCP στο μενού Claros σε ενεργοποιημένο.
Η λυχνία LED A3 αναβοσβήνει αργά με κόκκινο χρώμα.	Η διαμόρφωση της πύλης Profinet και Ethernet/IP έχει μπερδευτεί.	<p>Βλ. Έναρξη της διαμόρφωσης USB στη σελίδα 250, βήμα 4 και επιλέξτε το σωστό τύπο πύλης:</p> <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Αντιμετώπιση προβλημάτων για το Ethernet/IP

Εικόνα 5 Πύλη Ethernet/IP

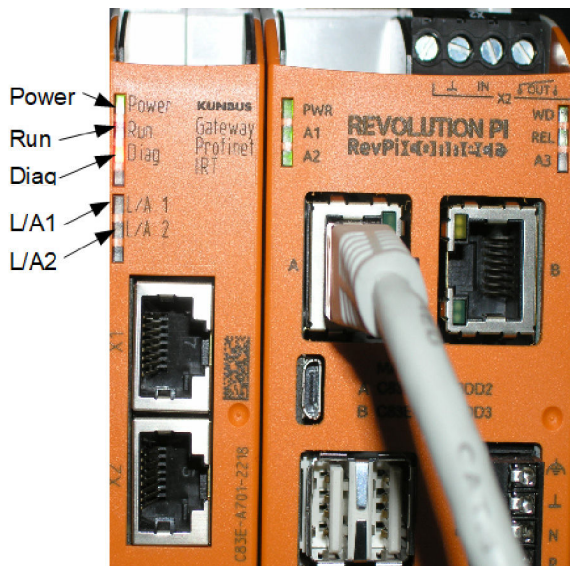


Μήνυμα	Περιγραφή	Λύση
Η λυχνία LED λειτουργίας είναι σβηστή.	Η πύλη Ethernet/IP έχει οριστεί σε απενεργοποιημένη.	Ενεργοποιήστε τη συσκευή.
Η λυχνία LED λειτουργίας αναβοσβήνει με πράσινο χρώμα.	Η διαδικασία εκκίνησης δεν έχει ολοκληρωθεί.	Περιμένετε λίγα λεπτά.
Η λυχνία LED λειτουργίας αναβοσβήνει με κόκκινο χρώμα.	Δείχνει μια προειδοποίηση.	Εξετάστε εάν έχουν συνδεθεί όλες οι συσκευές.
Η λυχνία LED λειτουργίας είναι κόκκινη.	Δείχνει ένα σφάλμα.	Η πύλη Ethernet/IP είναι ελαττωματική. Αντικαταστήστε την πύλη Ethernet/IP.
Η λυχνία LED MS είναι σβηστή.	Η πύλη Ethernet/IP έχει οριστεί σε απενεργοποιημένη.	Ενεργοποιήστε τη συσκευή.
Η λυχνία LED MS αναβοσβήνει με πράσινο χρώμα.	Η διαδικασία διαμόρφωσης δεν έχει ολοκληρωθεί.	Περιμένετε λίγα λεπτά.
Η λυχνία LED MS αναβοσβήνει με κόκκινο χρώμα.	Εμφανίζει ένα σφάλμα διαμόρφωσης.	Βλ. Διαμόρφωση της πύλης Ethernet/IP στη σελίδα 261 για να εξετάσετε τη διαμόρφωση.

Μήνυμα	Περιγραφή	Λύση
Η λυχνία LED MS είναι κόκκινη.	Δείχνει ένα σφάλμα.	Η πύλη Ethernet/IP είναι ελαττωματική. Αντικαταστήστε την πύλη Ethernet/IP.
Η λυχνία LED MS αναβοσβήνει με κόκκινο και πράσινο χρώμα.	Ο αυτοδιαγνωστικός έλεγχος δεν έχει ολοκληρωθεί.	Περιμένετε λίγα λεπτά.
Η λυχνία LED NS είναι σβηστή.	Η πύλη Ethernet/IP έχει οριστεί σε απενεργοποιημένη ή δεν έχει διεύθυνση IP.	Ενεργοποιήστε τη συσκευή. Ρυθμίστε τη διεύθυνση IP.
Η λυχνία LED NS αναβοσβήνει με πράσινο χρώμα.	Η διεύθυνση IP έχει οριστεί, αλλά η σύνδεση CIP δεν έχει δημιουργηθεί.	Περιμένετε λίγα λεπτά.
Η λυχνία LED NS αναβοσβήνει με κόκκινο χρώμα.	Η σύνδεση CIP έχει διακοπεί.	Εξετάστε εάν υπάρχει χρονικό όριο.
Η λυχνία LED NS είναι κόκκινη.	Η επιλεγμένη διεύθυνση IP χρησιμοποιείται από μια άλλη συσκευή.	Αλλάξτε τη διεύθυνση IP σε μια μοναδική διεύθυνση IP.
Η λυχνία LED L/A 1 ή 2 είναι σβηστή.	Δεν υπάρχει σύνδεση με άλλες συσκευές.	Συνδεθείτε σε μια συσκευή.
Η λυχνία LED L/A 1 ή 2 αναβοσβήνει με πράσινο χρώμα.	Δεν γίνεται ανταλλαγή δεδομένων.	Περιμένετε μέχρι την επόμενη ανταλλαγή δεδομένων.

9.3 Αντιμετώπιση προβλημάτων για το Profinet

Εικόνα 6 Πύλη Profinet



Μήνυμα	Περιγραφή	Λύση
Η λυχνία LED λειτουργίας είναι σβηστή.	Η πύλη Profinet είναι απενεργοποιημένη.	Ενεργοποιήστε τη συσκευή.
Η λυχνία LED λειτουργίας αναβοσβήνει με πράσινο χρώμα.	Η διαδικασία εκκίνησης δεν έχει ολοκληρωθεί.	Περιμένετε λίγα λεπτά.
Η λυχνία LED λειτουργίας αναβοσβήνει με κόκκινο χρώμα.	Δείχνει μια προειδοποίηση.	Εξετάστε εάν έχουν εγκατασταθεί όλες οι συσκευές.
Η λυχνία LED λειτουργίας είναι κόκκινη.	Δείχνει ένα σφάλμα.	Η πύλη Profinet είναι ελαττωματική. Αντικαταστήστε την πύλη Profinet.
Η λυχνία LED εκτέλεσης είναι σβηστή.	Δεν υπάρχει σύνδεση σε δίκτυο.	Συνδεθείτε σε δίκτυο.
Η λυχνία LED εκτέλεσης αναβοσβήνει με πράσινο χρώμα.	Ο ελεγκτής Profinet είναι συνδεδεμένος, αλλά δεν γίνεται ανταλλαγή δεδομένων.	Περιμένετε μέχρι την επόμενη ανταλλαγή δεδομένων.
Η λυχνία LED εκτέλεσης αναβοσβήνει αργά με πράσινο χρώμα.	Ενεργοποιήθηκε από το εργαλείο για αναγνώριση του στοιχείου πύλης.	Περιμένετε λίγα λεπτά.
Η λυχνία LED διάγνωσης αναβοσβήνει με κόκκινο χρώμα.	Ενεργοποιήθηκε από το εργαλείο για αναγνώριση του στοιχείου πύλης.	Περιμένετε λίγα λεπτά.

Μήνυμα	Περιγραφή	Λύση
Η λυχνία LED διάγνωσης αναβοσβήνει γρήγορα με κόκκινο χρώμα.	Δεν υπάρχει σύνδεση με τον ελεγκτή. Δεν έχει οριστεί όνομα Profinet στη μονάδα.	Βλ. Διαμόρφωση της πύλης Profinet στη σελίδα 264 για να ορίσετε το όνομα.
Η λυχνία LED διάγνωσης είναι κόκκινη.	Μια συσκευή πύλης αναφέρει δεδομένα διάγνωσης.	Ανατρέξτε στη διαγνωστική αναφορά.
Η λυχνία LED L/A 1 ή 2 είναι σβηστή.	Δεν υπάρχει σύνδεση σε δίκτυο.	Συνδεθείτε σε δίκτυο.
Η λυχνία LED L/A 1 ή 2 αναβοσβήνει με πράσινο χρώμα.	Ανταλλαγή δεδομένων.	Περιμένετε μέχρι να ολοκληρωθεί η ανταλλαγή δεδομένων.

Tartalomjegyzék

- | | | | | | |
|---|--|-------------|---|---|-------------|
| 1 | Tervezett felhasználás | oldalon 272 | 6 | Az SC1500 vezérlő Modbus TCP táviratának beállítása | oldalon 281 |
| 2 | Bevezetés | oldalon 272 | 7 | Az Ethernet-/IP-átjáró konfigurálása | oldalon 284 |
| 3 | Az USB-konfiguráció elindítása | oldalon 274 | 8 | A Profinet átjáró konfigurálása | oldalon 287 |
| 4 | Példák a telepítésre | oldalon 275 | 9 | Hibaelhárítás | oldalon 290 |
| 5 | Az SC4200c vezérlő Modbus TCP táviratának beállítása | oldalon 278 | | | |

Szakasz 1 Tervezett felhasználás

A telepítési utasításokat olyan személyek használhatják, akik a Claros hálózat hardverelemeként integrálják a külső Ethernet-/IP-átjárót vagy a Profinet-átjárót.

Szakasz 2 Bevezetés

A gyártó nem vállal felelősséget a termék nem rendeltetésszerű alkalmazásából vagy használatából eredő semmilyen kárért, beleértve de nem kizárólag a közvetlen, véletlen vagy közvetett károkat, és az érvényes jogszabályok alapján teljes mértékben elhárítja az ilyen kárigényeket. Kizárólag a felhasználó felelőssége, hogy felismerje a komoly alkalmazási kockázatokat, és megfelelő mechanizmusokat szereljen fel a folyamatok védelme érdekében a berendezés lehetséges meghibásodása esetén.

▲ VESZÉLY	
	Halálos áramütés veszélye. Mindig áramtalanítsa a műszert, mielőtt elektromosan csatlakoztatja.

Szükséges kellékek:

- FAT32-ként formázott pendrive
- Windows rendszerű számítógép¹ 10
- Modul:
 - Ethernet-/IP-implementáció esetén:
 - LXZ446.99.00001: ÁTJÁRÓ IIoT RevPi alapmodul
 - LXZ446.99.00002: ÁTJÁRÓ Ethernet/IP Slave
 - LXZ446.99.00003: Átkötés PiBridge-hez
 - Profinet-implementáció esetén:
 - LXZ446.99.00001: ÁTJÁRÓ IIoT RevPi alapmodul
 - LXZ446.99.00007: ÁTJÁRÓ Profinet IRT slave
 - LXZ446.99.00003: Átkötés PiBridge-hez

Csatlakoztassa a három modult (RevPi, Slave és PiBridge) a tápellátáshoz és a LAN-hoz.

A modulok gyártójától származó további információkért tekintse meg az alábbi táblázatban található hivatkozásokat.

Modul	Hivatkozás
ÁTJÁRÓ Profinet IRT slave	https://www.kunbus.com/profinet-irt-gateway-module.html
ÁTJÁRÓ Ethernet/IP Slave	https://www.kunbus.com/ethernet-ip-gateway-module.html

¹ A Microsoft® Windows® a Microsoft Corporation bejegyzett védjegye az Egyesült Államokban és más országokban.

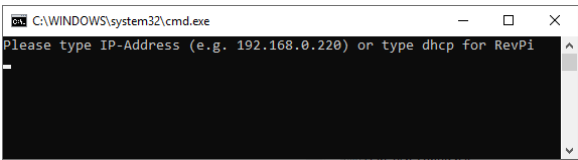
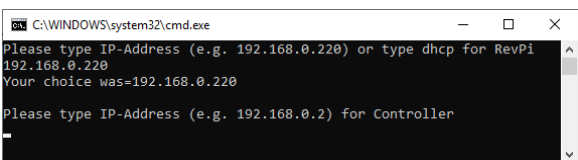
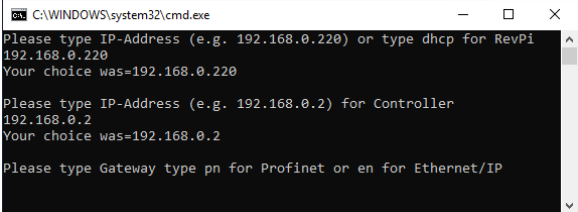
Modul	Hivatkozás
ÁTJÁRÓ IIoT RevPi Basic Module	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
RevPi modulok csatlakoztatása	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
A RevPi modulok telepítése DIN-sínre	https://revolution.kunbus.com/tutorials/din-rail-mounting/
A tápegység csatlakoztatása	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

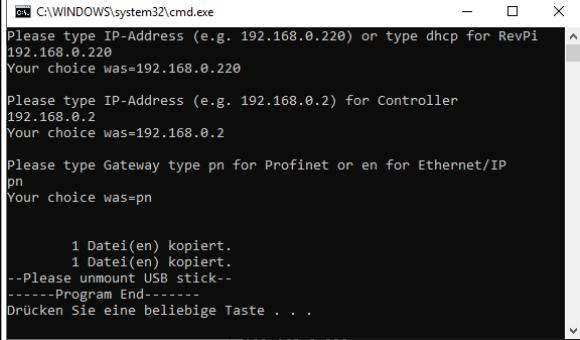


Készítse elő a pendrive-ot.

1. Helyezzen be egy üres pendrive-ot a számítógépbe.
2. Lépjen ide: <https://www.hach.com> és keresse meg az „usb ethernet/IP-telepítés” vagy az „usb profinet telepítés” kulcsszavakat.
3. Töltse le az USB_ETHIP_PRNET.zip fájlt.
4. Csomagolja ki a fájlt a pendrive-on található gyökérkönyvtárba.

Szakasz 3 Az USB-konfiguráció elindítása

Helyezze be az előkészített pendrive-ot a számítógépbe.

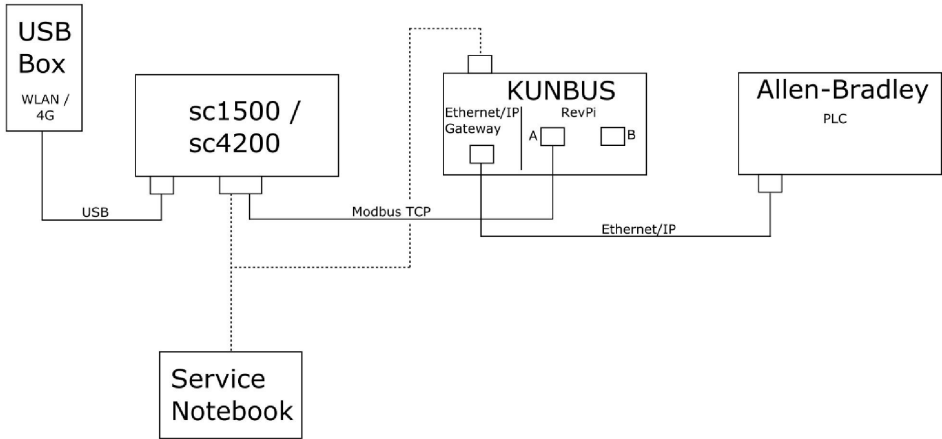
Lépés	Leírás	Kép
1	Indítsa el a Start_usb_config.bat fájlt. Megnyílik egy terminálablak. Kövesse a lépésenkénti útmutatót.	
2	Adja meg a RevPi modul IP-címét.	
3	Adja meg az SC vezérlő IP-címét. Ellenőrizze, hogy a hálózati előtag megegyezik-e a RevPi modulével (pl. 192.168.0). Győződjön meg arról, hogy a hostazonosító különbözik a RevPi modulétól (pl. 220 RevPi, 2 vezérlő).	
4	Adja meg az átjáró típusát: <ul style="list-style-type: none">• pn – Profinet• en – Ethernet/IP	

Lépés	Leírás	Kép
5	Erősítse meg a beállításokat az Enter gombbal. Távolítsa el a pendrive-ot.	
6	Helyezze a pendrive-ot a RevPi modul bal oldali USB-aljzatába.	
7	LED leírása: <ul style="list-style-type: none"> A1/A2 narancssárga: Elindul a RevPi telepítése. A1 piros, A2 ki: RevPi, pendrive behelyezése. A1 zöld, A2 ki: a pendrive-ot sikeresen behelyezte. A1 ki, A2 zöld: a RevPi adatokat tölt le/tölt fel a pendrive-ról. A3 piros: a RevPi újraindul. <p>Ha az A3 piros, távolítsa el a pendrive-ot.</p>	
8	A RevPi beállítása megtörtént.	

Szakasz 4 Példák a telepítésre

A 1. ábra két különböző LAN-csatlakozású telepítést mutat.

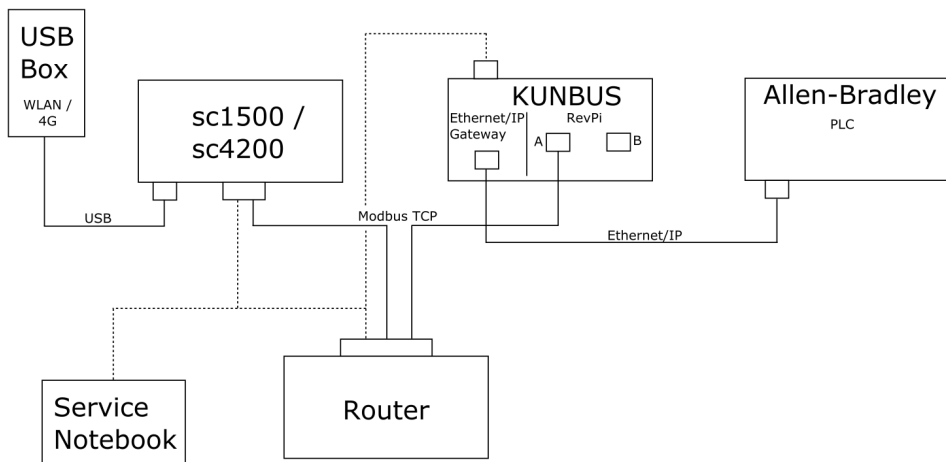
1. ábra 1. példa



- A Modbus TCP és Ethernet/IP két különböző LAN-kapcsolatot használ.
- Minden eszköz statikus IP-címmel rendelkezik.
- A vezérlő WiFi-n vagy mobil kapcsolaton keresztül rendelkezik internet-hozzáféréssel.
- A vezérlő IP-címének és az Ethernet-/IP-átjárónak a beállításához laptop szükséges.

A 2. ábra routerrel való telepítést mutat a Modbus TCP-kapcsolathoz.

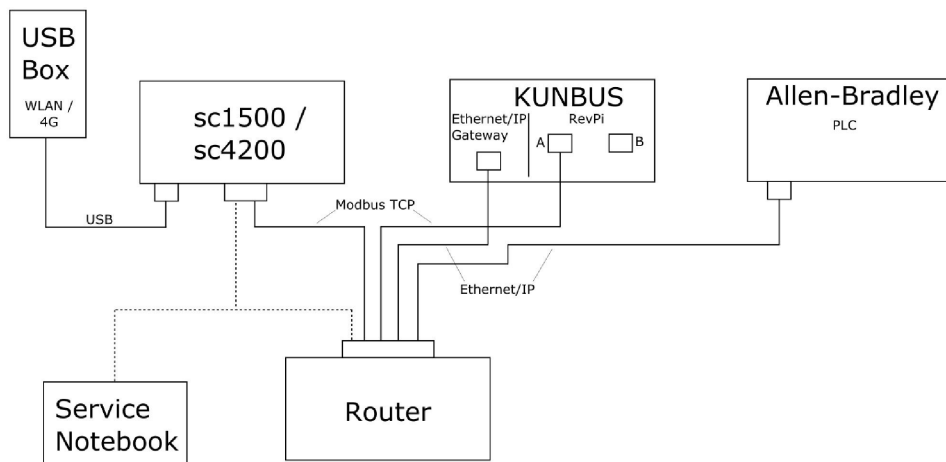
2. ábra 2. példa



- A Modbus TCP egy routerhez csatlakozik.
- Minden eszköz statikus IP-címmel rendelkezik, vagy a router DHCP-n keresztül állítja be az IP-címet.
Megjegyzés: Ha DHCP-t használ, győződjön meg róla, hogy a router mindig ugyanazt az IP-címet használja ugyanazoknak az eszközöknek (MAC).
- A vezérlő WiFi-n vagy mobil kapcsolaton keresztül rendelkezik internet-hozzáféréssel.
- A vezérlő IP-címének, az Ethernet/IP-átjárónak és a routernek a beállításához laptop szükséges.

A 3. ábra az összes készüléken való telepítést routerrel vagy kapcsolóval való mutatja.

3. ábra 3. példa

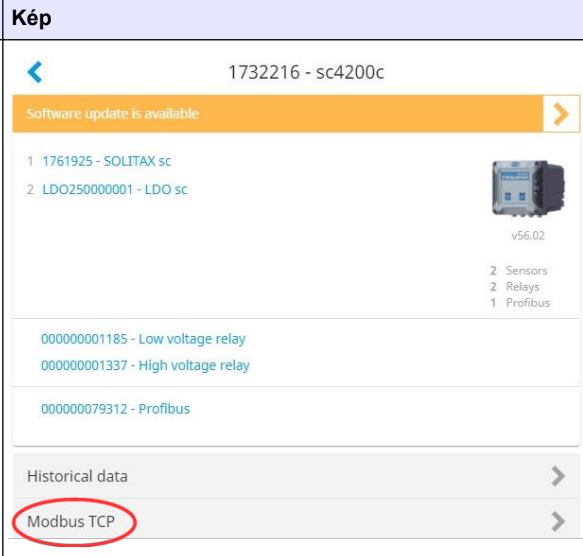
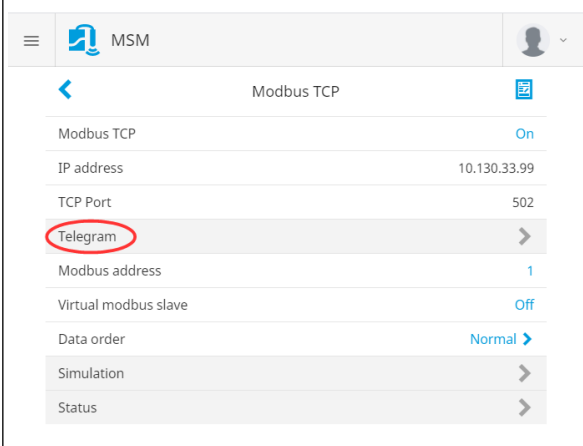


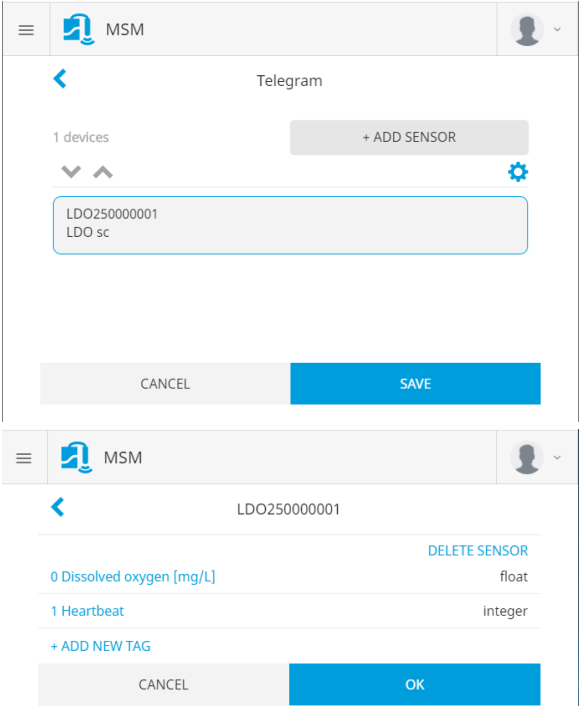
- Az összes eszköz routerhez vagy kapcsolóhoz csatlakozik.

- Minden eszköz statikus IP-címmel rendelkezik, illetve a router vagy a kapcsoló DHCP-n keresztül állítja be az IP-címet.
Megjegyzés: Ha DHCP-t használ, győződjön meg róla, hogy a router mindig ugyanazt az IP-címet használja ugyanazoknál az eszközöknél (MAC).
- A vezérlő WiFi-n vagy mobil kapcsolaton keresztül rendelkezik internet-hozzáféréssel.
- A vezérlő IP-címének és a router beállításához laptop szükséges.

Szakasz 5 Az SC4200c vezérlő Modbus TCP táviratának beállítása

Indítsa el a Claros alkalmazást, és kövesse a lépésenkénti útmutatót.

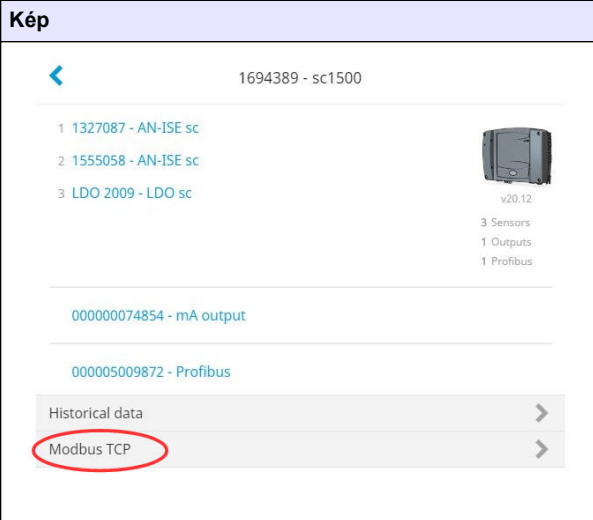
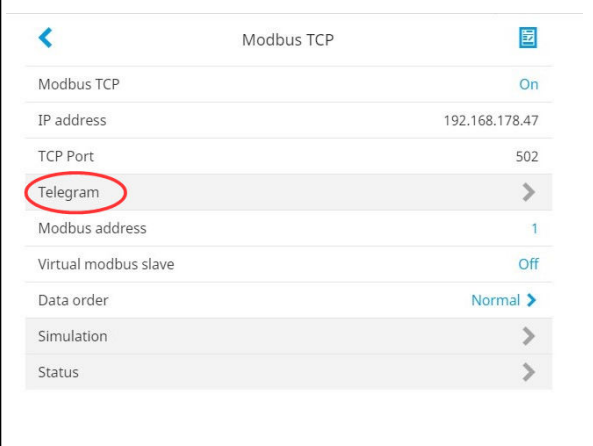
Lépés	Leírás	Kép
1	Válassza ki a vezérlő menüjét, majd nyomja meg a Modbus TCP gombot.	
2	Válassza a Telegram (Távirat) lehetőséget a Modbus TCP távirat beállításához.	

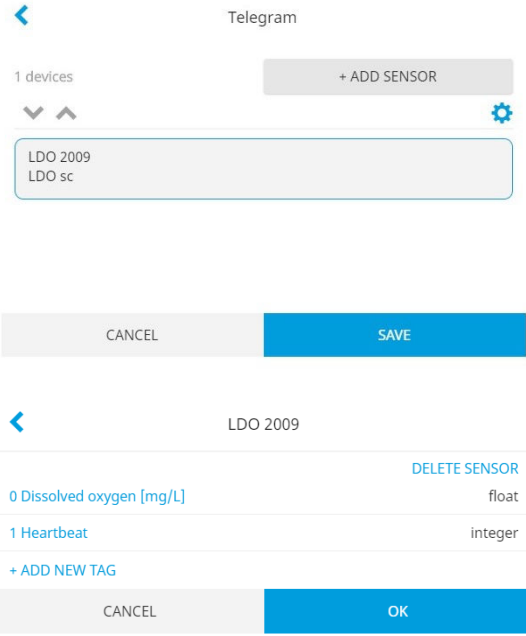
Lépés	Leírás	Kép
3	<p>Az ábrán látható távirat egy példa az LDO sc érzékelő esetében.</p> <p>Állítsa a Heartbeat (Szívverés) értékét egész számra. A szívverés egy számláló, amely az érték változását egy másodperces lépésekben mutatja.</p> <p>Megjegyzés: A Modbus TCP távirat tartalma megegyezik a Profibus táviratban szereplő tartalommal.</p>	 <p>The image contains two screenshots from the MSM mobile application. The top screenshot shows the 'Telegram' configuration screen for device 'LDO250000001'. It displays '1 devices' and a '+ ADD SENSOR' button. The bottom screenshot shows the configuration for the selected sensor 'LDO250000001', listing '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer), with a '+ ADD NEW TAG' button.</p>

Lépés	Leírás	Kép
4	<p>A Modbus TCP menü a vezérlő IP-címét mutatja. aA 10.130.33.99 a vezérlő szerviz menüjében beállított IP-cím.</p> <p>Állítsa a Modbus TCP-t ON (be) értékre, majd nyomja meg a Status (Állapot) gombot.</p>	
5	<p>A Status (Állapot) menü a Modbus TCP statisztikáit mutatja. A 10.130.33.50 a RevPi modul IP-címe. A RevPi 5 Modbus TCP-master modulal rendelkezik.</p>	

Szakasz 6 Az SC1500 vezérlő Modbus TCP táviratának beállítása

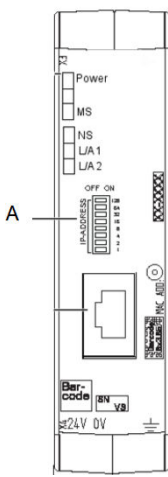
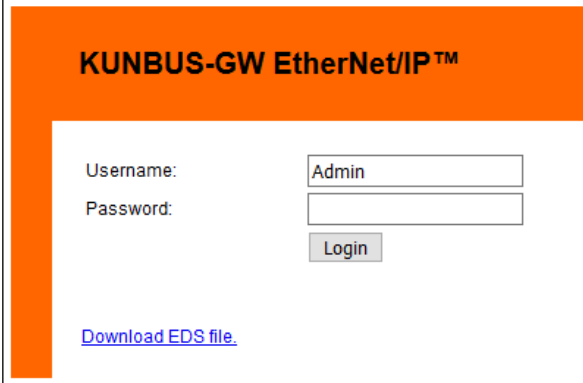
Indítsa el a Claros alkalmazást, és kövesse a lépésenkénti útmutatót.

Lépés	Leírás	Kép
1	Válassza ki a vezérlő menüjét, majd nyomja meg a Modbus TCP gombot.	 <p>The screenshot shows the main menu of the SC1500 control system. At the top, it displays '1694389 - sc1500'. Below this, there are three main menu items: '1 1327087 - AN-ISE sc', '2 1555058 - AN-ISE sc', and '3 LDO 2009 - LDO sc'. To the right of these items is a small image of the SC1500 device with the text 'v20:12', '3 Sensors', '1 Outputs', and '1 Profibus'. Below the menu items, there are two options: '00000074854 - mA output' and '000005009872 - Profibus'. At the bottom, there are two buttons: 'Historical data' and 'Modbus TCP'. The 'Modbus TCP' button is circled in red.</p>
2	Válassza a Telegram (Távirat) lehetőséget a Modbus TCP távirat beállításához.	 <p>The screenshot shows the configuration screen for Modbus TCP. At the top, it displays 'Modbus TCP' and a blue icon. Below this, there are several configuration options: 'Modbus TCP' (On), 'IP address' (192.168.178.47), 'TCP Port' (502), 'Telegram' (circled in red), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal), 'Simulation', and 'Status'. Each option has a right-pointing arrow next to it.</p>

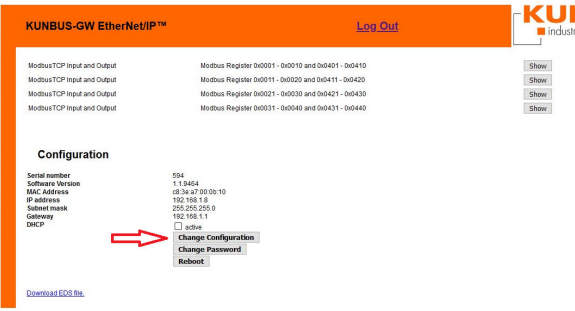
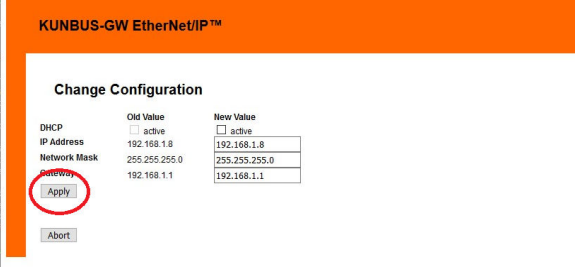
Lépés	Leírás	Kép
3	<p>Az ábrán látható távirat egy példa az LDO sc érzékelő esetében.</p> <p>Állítsa a Heartbeat (Szívverés) értékét egész számra. A szívverés egy számláló, amely az érték változását egy másodperces lépésekben mutatja.</p> <p>Megjegyzés: A Modbus TCP távirat tartalma megegyezik a Profibus táviratban szereplő tartalommal.</p>	 <p>The image contains two screenshots of a Telegram interface. The top screenshot shows a device list with 'LDO 2009 LDO sc' and buttons for 'CANCEL' and 'SAVE'. The bottom screenshot shows the configuration for 'LDO 2009' with two tags: '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer), and buttons for 'CANCEL' and 'OK'.</p>

Lépés	Leírás	Kép																								
4	<p>A Modbus TCP menü a vezérlő IP-címét mutatja. aA 192.168.178.47 a vezérlő szerviz menüjében beállított IP-cím.</p> <p>Állítsa a Modbus TCP-t ON (be) értékre, majd nyomja meg a Status (Állapot) gombot.</p>	<p>The screenshot shows the 'Modbus TCP' configuration screen. The 'Modbus TCP' toggle is set to 'On'. The 'IP address' is '192.168.178.47'. Other settings include 'TCP Port' (502), 'Telegram' (with a right arrow), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal), 'Simulation' (with a right arrow), and 'Status' (with a right arrow and a red circle around it).</p>																								
5	<p>A Status (Állapot) menü a Modbus TCP statisztikáit mutatja. A 192.168.178.50 a RevPi modul IP-címe. A RevPi 7 Modbus TCP-master modullal rendelkezik.</p>	<p>The screenshot shows the 'Status' screen with statistics for three clients. Each client has the following statistics: RX Bytes, TX Bytes, Accepted requests, Rejected Requests, and Last exception.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>192.168.178.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	192.168.178.50:46338	792	4818	66	0	0	192.168.178.50:46340	792	4818	66	0	0	192.168.178.50:46342	792	4818	66	0	0
Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception																					
192.168.178.50:46338	792	4818	66	0	0																					
192.168.178.50:46340	792	4818	66	0	0																					
192.168.178.50:46342	792	4818	66	0	0																					

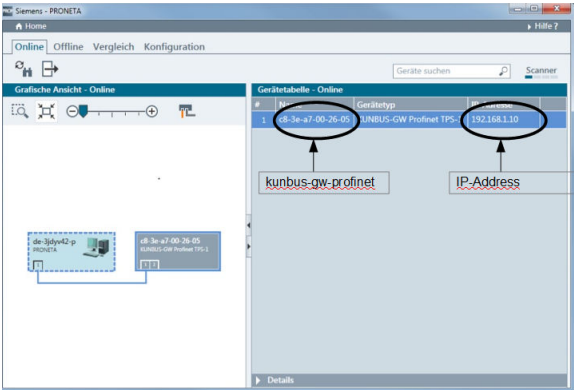
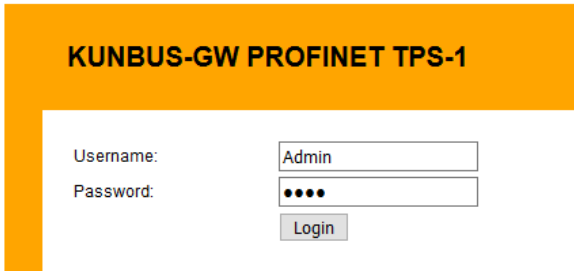
Szakasz 7 Az Ethernet-/IP-átjáró konfigurálása

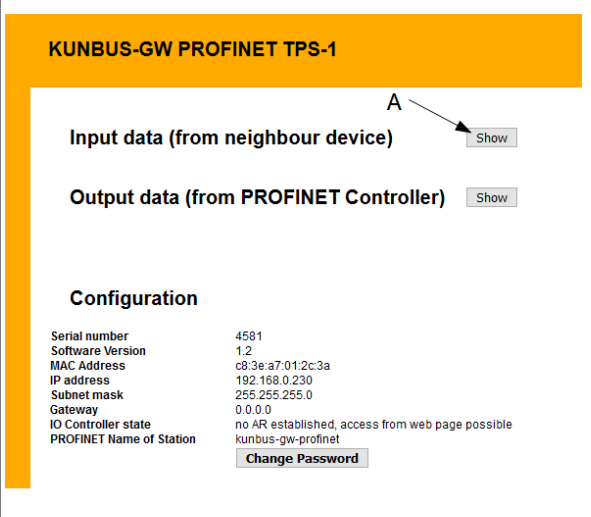
Lépés	Leírás	Kép
1	<ul style="list-style-type: none"> Csatlakoztassa az Ethernet-/IP-átjárót a számítógéphez a LAN-USB adapterkábellel. Lásd: Bevezetés oldalon 272. Használja az átjáró Ethernet/IP-slave hivatkozását. Kövesse a gyártó felhasználói kézikönyvében található utasításokat, amelynek címe <i>Átjáró az Ethernethez/IP-hez</i>. A 8-tús címkapcsolóval (a) állítsa be a hostazonosítót az átjáró bináris formátumára. <ul style="list-style-type: none"> Példa: Állítsa a hostot 8: 00010000 értékre. Nyissa meg a weboldalt . (X=Az összes BEKAPCSOLT kapcsoló összege). 	 <p>The diagram shows the top panel of the KUNBUS-GW EtherNet/IP module. It features a power switch labeled 'Power', a master/slave switch labeled 'MS', and network interface switches labeled 'NS', 'LIA 1', and 'LIA 2'. A central address switch is labeled 'A' and 'OFF ON'. Below it is a barcode and a label 'Bejelentkezés' with 'BN' and 'VB' indicators. At the bottom, there is a '24V DV' label and a ground symbol.</p>
2	<p>Nyissa meg a böngészőt, és adja meg a 192.168.1.X. IP-címet. Bejelentkezési adatok az első bejelentkezéshez: Felhasználó: Admin Jelszó: 1701 Nyomja meg a Bejelentkezés ikont.</p>	 <p>The screenshot shows the web interface for the KUNBUS-GW EtherNet/IP device. The title is 'KUNBUS-GW EtherNet/IP™'. Below the title, there is a login form with two input fields: 'Username:' containing 'Admin' and 'Password:'. A 'Login' button is positioned below the password field. At the bottom of the page, there is a blue link that says 'Download EDS file.'</p>

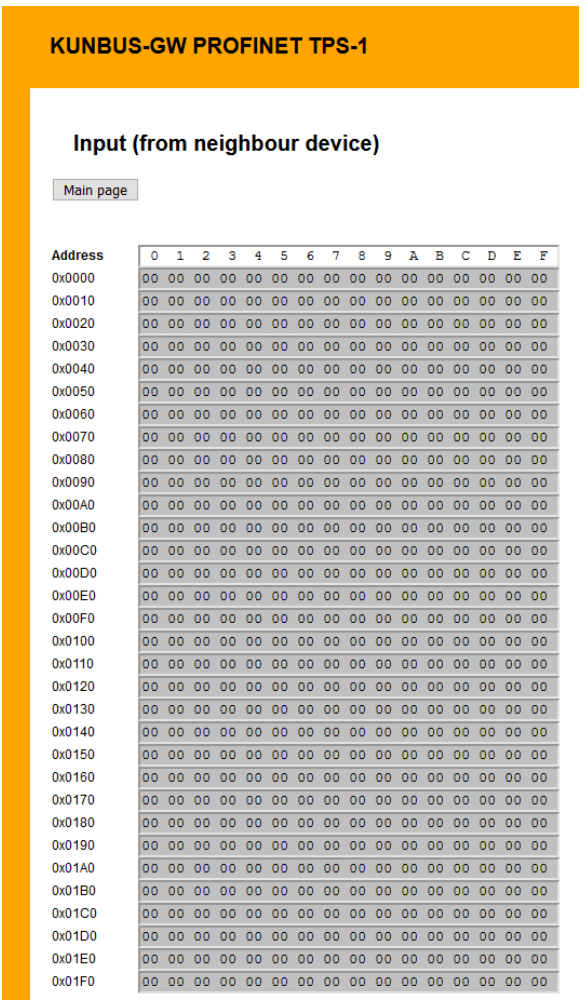
Lépés	Leírás	Kép																																																																																																																					
3	<p>A vezérlő és az Ethernet-/IP-átjáró továbbítja a 0000 - 01BF adatterületet, amely 448 bájtból vagy 112 lebegőpontból vagy 224 egész számból áll, vagy ezek keveréke. Ez a vezérlőben lévő Modbus TCP távirat típusa alapján történik.</p> <p>Megjegyzés: Csak az első 32 egész számgig tartó adattartomány jelenik meg. Az összes adatot a PLC-ben tekintheti meg (224 egész szám).</p> <p>Nyomja meg a Show (Mutasd) gombot.</p>																																																																																																																						
4	<p>Megjelenik a kiválasztott adatterület.</p>	<table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1</td><td>0x0001</td><td>0</td><td>Output 1</td><td>0x0401</td><td>0</td><td>Send</td></tr> <tr><td>Input 2</td><td>0x0002</td><td>0</td><td>Output 2</td><td>0x0402</td><td>0</td><td>Send</td></tr> <tr><td>Input 3</td><td>0x0003</td><td>0</td><td>Output 3</td><td>0x0403</td><td>0</td><td>Send</td></tr> <tr><td>Input 4</td><td>0x0004</td><td>0</td><td>Output 4</td><td>0x0404</td><td>0</td><td>Send</td></tr> <tr><td>Input 5</td><td>0x0005</td><td>0</td><td>Output 5</td><td>0x0405</td><td>0</td><td>Send</td></tr> <tr><td>Input 6</td><td>0x0006</td><td>0</td><td>Output 6</td><td>0x0406</td><td>0</td><td>Send</td></tr> <tr><td>Input 7</td><td>0x0007</td><td>0</td><td>Output 7</td><td>0x0407</td><td>0</td><td>Send</td></tr> <tr><td>Input 8</td><td>0x0008</td><td>0</td><td>Output 8</td><td>0x0408</td><td>0</td><td>Send</td></tr> <tr><td>Input 9</td><td>0x0009</td><td>0</td><td>Output 9</td><td>0x0409</td><td>0</td><td>Send</td></tr> <tr><td>Input 10</td><td>0x000a</td><td>0</td><td>Output 10</td><td>0x040A</td><td>0</td><td>Send</td></tr> <tr><td>Input 11</td><td>0x000b</td><td>0</td><td>Output 11</td><td>0x040B</td><td>0</td><td>Send</td></tr> <tr><td>Input 12</td><td>0x000c</td><td>0</td><td>Output 12</td><td>0x040C</td><td>0</td><td>Send</td></tr> <tr><td>Input 13</td><td>0x000d</td><td>0</td><td>Output 13</td><td>0x040D</td><td>0</td><td>Send</td></tr> <tr><td>Input 14</td><td>0x000e</td><td>0</td><td>Output 14</td><td>0x040E</td><td>0</td><td>Send</td></tr> <tr><td>Input 15</td><td>0x000f</td><td>0</td><td>Output 15</td><td>0x040F</td><td>0</td><td>Send</td></tr> <tr><td>Input 16</td><td>0x0010</td><td>0</td><td>Output 16</td><td>0x0410</td><td>0</td><td>Send</td></tr> </tbody> </table>	Address	Value				Input 1	0x0001	0	Output 1	0x0401	0	Send	Input 2	0x0002	0	Output 2	0x0402	0	Send	Input 3	0x0003	0	Output 3	0x0403	0	Send	Input 4	0x0004	0	Output 4	0x0404	0	Send	Input 5	0x0005	0	Output 5	0x0405	0	Send	Input 6	0x0006	0	Output 6	0x0406	0	Send	Input 7	0x0007	0	Output 7	0x0407	0	Send	Input 8	0x0008	0	Output 8	0x0408	0	Send	Input 9	0x0009	0	Output 9	0x0409	0	Send	Input 10	0x000a	0	Output 10	0x040A	0	Send	Input 11	0x000b	0	Output 11	0x040B	0	Send	Input 12	0x000c	0	Output 12	0x040C	0	Send	Input 13	0x000d	0	Output 13	0x040D	0	Send	Input 14	0x000e	0	Output 14	0x040E	0	Send	Input 15	0x000f	0	Output 15	0x040F	0	Send	Input 16	0x0010	0	Output 16	0x0410	0	Send
Address	Value																																																																																																																						
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Input 15	0x000f	0	Output 15	0x040F	0	Send																																																																																																																	
Input 16	0x0010	0	Output 16	0x0410	0	Send																																																																																																																	

Lépés	Leírás	Kép															
5	Az IP-cím beállításához nyomja meg a Change configuration (Konfiguráció módosítása) gombot.	 <p>The screenshot shows the 'KUNBUS-GW EtherNet/IP™' web interface. At the top right, there is a 'Log Out' link and the KUI logo. Below the header, there are three rows of Modbus Register information, each with a 'Show' button. The main section is titled 'Configuration' and lists several parameters: Serial Number (594), Software Version (1.1.0464), MAC Address (c9:3a:37:00:0a:10), IP Address (192.168.1.8), Subnet mask (255.255.255.0), and Gateway (192.168.1.1). Below these parameters are three buttons: 'Change Configuration' (highlighted with a red arrow), 'Change Password', and 'Reboot'. At the bottom left, there is a 'Download EDS file' link.</p>															
6	Változtassa meg az IP-címet az átjáró címének megfelelően. Erősítse meg a beállításokat az Apply (Alkalmazás) gombbal. Állítsa az összes DIP kapcsolót „ki” állásba. Állítsa az átjáró tápellátását "ki" állásba, majd indítsa újra. Ekkortól az új IP-címet használja.	 <p>The screenshot shows the 'Change Configuration' page. It features a table with two columns: 'Old Value' and 'New Value'. The rows are for DHCP, IP Address, Network Mask, and Gateway. The 'Apply' button is circled in red. Below the table is an 'Abort' button.</p> <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td><input type="checkbox"/> active</td> <td><input type="checkbox"/> active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table>		Old Value	New Value	DHCP	<input type="checkbox"/> active	<input type="checkbox"/> active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0	Gateway	192.168.1.1	192.168.1.1
	Old Value	New Value															
DHCP	<input type="checkbox"/> active	<input type="checkbox"/> active															
IP Address	192.168.1.8	192.168.1.8															
Network Mask	255.255.255.0	255.255.255.0															
Gateway	192.168.1.1	192.168.1.1															

Szakasz 8 A Profinet átjáró konfigurálása

Lépés	Leírás	Kép
1	<ul style="list-style-type: none"> • Csatlakoztassa az Profinet átjárót a számítógéphez a LAN-LAN adapterkábellet. • Lásd: Bevezetés oldalon 272. Használja az átjáró Profinet IRT-slave hivatkozását. Kövesse a gyártó felhasználói kézikönyvében található utasításokat, amelyek címe <i>Átjáróelem a PROFINETHEZ</i>. • A PRONETA szoftver segítségével állítsa be a nevet: kunbus-gw-profinet. • Írja be a használt IP-címet. 	
2	<p>Nyissa meg a böngészőt, és adja meg az IP-címet. Bejelentkezési adatok az első bejelentkezéshez:</p> <p>Felhasználó: Admin Jelszó: 1701</p> <p>Nyomja meg a Bejelentkezés ikont.</p>	

Lépés	Leírás	Kép																
3	Nyomja meg a Show (Mutasd) gombot (A) a bemeneti adatok megjelenítéséhez.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
Serial number	4581																	
Software Version	1.2																	
MAC Address	c8:3e:a7:01:2c:3a																	
IP address	192.168.0.230																	
Subnet mask	255.255.255.0																	
Gateway	0.0.0.0																	
IO Controller state	no AR established, access from web page possible																	
PROFINET Name of Station	kunbus-gw-profinet																	

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4	<p>Megjeleníti a vezérlőtől a Profinet átjáróhoz küldött összes adatot.</p> <p>A vezérlő és a Profinet-átjáró továbbítja a 0000 - 01BF adatterületet, amely 448 bájtól vagy 112 lebegőpontból vagy 224 egész számból áll, vagy ezek keveréke. Ez a vezérlőben lévő Modbus TCP távirat típusa alapján történik.</p>	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input (from neighbour device)</p> <p>Main page</p> <table border="1"> <thead> <tr> <th>Address</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0010</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Szakasz 9 Hibaelhárítás

9.1 Hibaelhárítás – RevPi

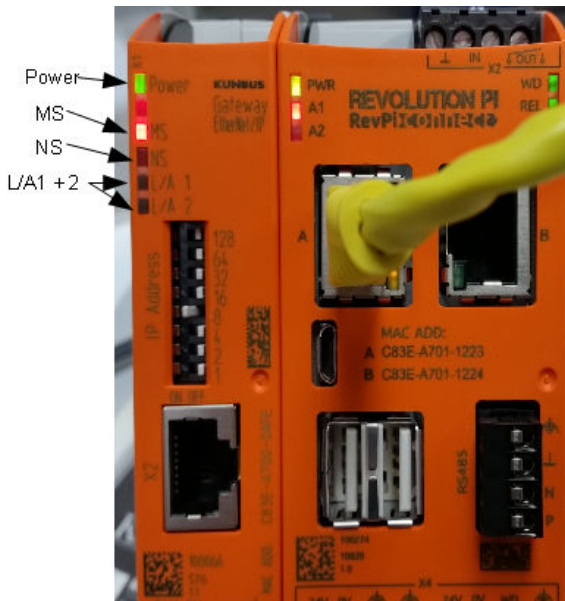
4. ábra RevPi alapmodul



Üzenet	Leírás	Megoldás
A LED A2 pirosan villog.	A kommunikáció leállt.	<ul style="list-style-type: none">• Csatlakoztassa a hálózati kábelt (kábel vagy router).• Állítsa be a Modbus-címet a Claros-ban 1-es értékre.• A Claros menüben állítsa a Modbus TCP-t „ON” (be) értékre.
A LED A3 lassan és pirosan villog.	Az Ethernet/IP és a Profinet átjáró konfigurációja összekeveredik.	Lásd a 4. lépést itt: Az USB-konfiguráció elindítása oldalon 274; válassza ki a megfelelő átjáró típusát: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Hibaelhárítás – Ethernet/IP

5. ábra Ethernet-/IP-átjáró

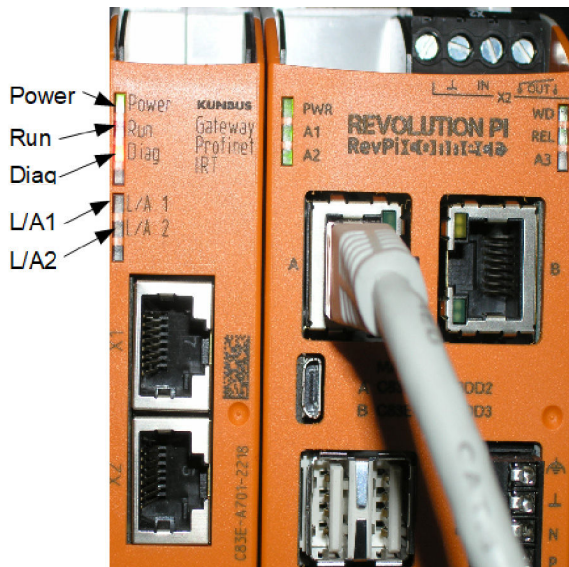


Üzenet	Leírás	Megoldás
A tápellátást jelző LED nem világít.	Az Ethernet-/IP-átjáró ki van kapcsolva.	A tápellátás bekapcsolása.
A tápellátást jelző LED zölden villog.	Az indítási folyamat nem fejeződött be.	Várjon néhány percet.
A tápellátást jelző LED pirosan villog.	Figyelmeztetést mutat.	Ellenőrizze, hogy az összes eszköz csatlakoztatva van-e.
A tápellátást jelző LED piros.	Hibát jelez.	Az Ethernet-/IP-átjáró hibás. Cserélje le az Ethernet-/IP-átjárót.
Az MS LED nem világít.	Az Ethernet-/IP-átjáró ki van kapcsolva.	Kapcsolja be a tápellátást.
Az MS LED zölden villog.	A konfigurálási folyamat nem fejeződött be.	Várjon néhány percet.
Az MS LED pirosan villog.	Konfigurációs hibát jelez.	A konfiguráció ellenőrzéséhez lásd: Az Ethernet-/IP-átjáró konfigurálása oldalon 284.
Az MS LED piros.	Hibát jelez.	Az Ethernet-/IP-átjáró hibás. Cserélje le az Ethernet-/IP-átjárót.
Az MS LED pirosan és zölden villog.	Az önellenőrzés nem fejeződött be.	Várjon néhány percet.
Az NS LED nem világít.	Az Ethernet-/IP-átjáró ki van kapcsolva vagy nincsen IP-cím.	Kapcsolja be a tápellátást. Adja meg az IP-címet.

Üzenet	Leírás	Megoldás
Az NS LED zölden villog.	Az IP-cím be van állítva, de a CIP-kapcsolat nem jön létre.	Várjon néhány percet.
Az NS LED pirosan villog.	A CIP-kapcsolat leállt.	Ellenőrizze, hogy van-e időtűllépés.
Az NS LED piros.	A kiválasztott IP-címet egy másik eszköz használja.	Változtassa meg az IP-címet egy egyedi IP-címre.
L/A 1 vagy 2 LED nem világít.	Nincs kapcsolat más eszközökkel.	Csatlakoztasson egy eszközt.
L/A 1 vagy 2 LED zölden villog.	Nincs adatcsere.	Várja meg a következő adatcserét.

9.3 Hibaelhárítás – Profinet

6. ábra Profinet-átjáró



Üzenet	Leírás	Megoldás
A tápellátást jelző LED nem világít.	A Profinet átjáró ki van kapcsolva.	Kapcsolja be a tápellátást.
A tápellátást jelző LED zölden villog.	Az indítási folyamat nem fejeződött be.	Várjon néhány percet.
A tápellátást jelző LED pirosan villog.	Figyelmeztetést mutat.	Ellenőrizze, hogy az összes eszköz telepítve van-e.
A tápellátást jelző LED piros.	Hibát jelez.	A Profinet átjáró hibás. Cserélje le a Profinet-átjárót.
A Run LED nem világít.	Nincs kapcsolat a hálózattal.	Csatlakozzon a hálózathoz.

Üzenet	Leírás	Megoldás
A Run LED zölden villog.	A Profinet vezérlő csatlakoztatva van, de nincs adatcsere.	Várja meg a következő adatcserét.
A Run LED lassan és zölden villog.	Az átjáró összetevő azonosítására szolgáló eszköz váltja ki.	Várjon néhány percet.
A Diag LED pirosan villog.	Az átjáró összetevő azonosítására szolgáló eszköz váltja ki.	Várjon néhány percet.
A Diag LED gyorsan és pirosan villog.	Nincs csatlakozás a vezérlőhöz. A modulban nincs megadva Profinet név.	A név megadását lásd: A Profinet átjáró konfigurálása oldalon 287.
A Diag LED piros.	Egy átjáró eszköz diagnosztikai adatokat jelent.	Lásd a diagnosztikai jelentést.
L/A 1 vagy 2 LED nem világít.	Nincs kapcsolat a hálózattal.	Csatlakozzon a hálózathoz.
L/A 1 vagy 2 LED zölden villog.	Adatcsere.	Várjon, amíg az adatcsere befejeződik.

Spis treści

- | | | | |
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| 1 | Przeznaczenie na stronie 294 | 7 | Konfiguracja bramy sieci Ethernet/IP na stronie 307 |
| 2 | Wprowadzenie na stronie 294 | 8 | Skonfiguruj bramę sieci Profinet na stronie 310 |
| 3 | Uruchom konfigurację USB na stronie 296 | 9 | Rozwiązywanie problemów na stronie 313 |
| 4 | Przykłady instalacji na stronie 298 | | |
| 5 | Konfiguracja telegramu Modbus TCP przetwornika SC4200c na stronie 301 | | |
| 6 | Konfiguracja telegramu Modbus TCP przetwornika SC1500 na stronie 304 | | |

Rozdział 1 Przeznaczenie

Niniejsza instrukcja konfiguracji jest przeznaczona dla osób, które integrują zewnętrzną bramę sieci Ethernet/IP lub Profinet jako składniki sprzętowe w sieci Claros.

Rozdział 2 Wprowadzenie

Producent nie ponosi odpowiedzialności za ewentualne szkody wynikłe z niewłaściwego stosowania albo użytkowania tego produktu, w tym, bez ograniczeń za szkody bezpośrednie, przypadkowe i wtórne, oraz wyklucza odpowiedzialność za takie szkody w pełnym zakresie dozwolonym przez obowiązujące prawo. Użytkownik jest wyłącznie odpowiedzialny za zidentyfikowanie krytycznych zagrożeń aplikacji i zainstalowanie odpowiednich mechanizmów ochronnych procesów podczas ewentualnej awarii sprzętu.

⚠ NIEBEZPIECZEŃSTWO



Niebezpieczeństwo śmiertelnego porażenia prądem elektrycznym. Przed wykonaniem połączeń elektrycznych należy zawsze odłączyć urządzenie od źródła zasilania.

Co należy przygotować:

- Pamięć USB sformatowana w systemie plików FAT32
- Komputer z systemem Windows¹ 10
- Moduł:
 - W przypadku obsługi sieci Ethernet/IP:
 - LXZ446.99.00001: moduł podstawowy bramy IloT RevPi
 - LXZ446.99.00002: urządzenie podrzędne bramy sieci Ethernet/IP
 - LXZ446.99.00003: przewód połączeniowy do PiBridge
 - W przypadku obsługi sieci Profinet:
 - LXZ446.99.00001: moduł podstawowy bramy IloT RevPi
 - LXZ446.99.00007: urządzenie podrzędne bramy Profinet IRT
 - LXZ446.99.00003: przewód połączeniowy do PiBridge

Podłącz trzy moduły: RevPi, moduł podrzędny oraz PiBridge do zasilania i do sieci LAN.

Aby uzyskać dodatkowe informacje podane przez producentów modułów, skorzystaj z łączy podanych w poniższej tabeli.

¹ Microsoft® Windows® jest zastrzeżonym znakiem towarowym firmy Microsoft Corporation w Stanach Zjednoczonych i innych krajach.

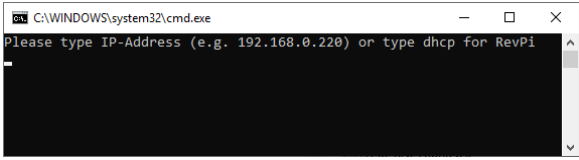
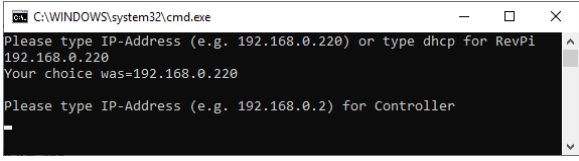
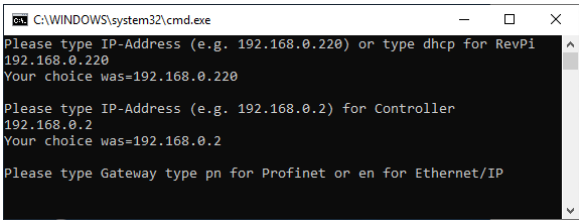
Moduł	Połączenie
Urządzenie podrzędne bramy Profinet IRT	https://www.kunbus.com/profinet-irt-gateway-module.html
Urządzenie podrzędne bramy sieci Ethernet/IP	https://www.kunbus.com/ethernet-ip-gateway-module.html
Moduł podstawowy bramy IIoT RevPi	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
Sposób podłączania modułów RevPi	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Sposób instalowania modułów RevPi na szynie DIN	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Sposób podłączania zasilacza	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

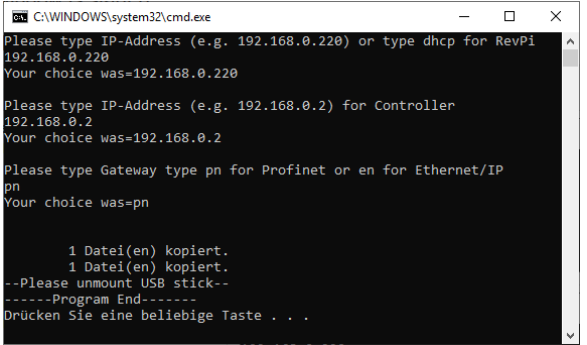

Przygotuj pamięć USB

1. Włóż pustą pamięć USB do komputera.
2. Przejdź do <https://www.hach.com> i wyszukaj słowa kluczowe „usb ethernet/IP installation” lub „usb profinet installation”.
3. Pobierz plik USB_ETHIP_PRNET.zip.
4. Rozpakuj plik do katalogu głównego pamięci USB.

Rozdział 3 Uruchom konfigurację USB

Włóż przygotowaną pamięć USB do komputera.

Czynność	Opis	Obraz
1	Uruchom plik start_usb_config.bat. Zostanie wyświetlone okno terminala. Postępuj zgodnie z podaną instrukcją.	
2	Wprowadź adres IP modułu RevPi.	
3	Wprowadź adres IP przetwornika SC. Upewnij się, że prefiks sieci jest taki sam, jak w module RevPi (np. 192.168.0). Upewnij się, że identyfikator hosta różni się od modułu RevPi (np. 220 RevPi, 2 Controller).	
4	Wprowadź typ bramy: <ul style="list-style-type: none">• pn — Profinet• en — Ethernet/IP	

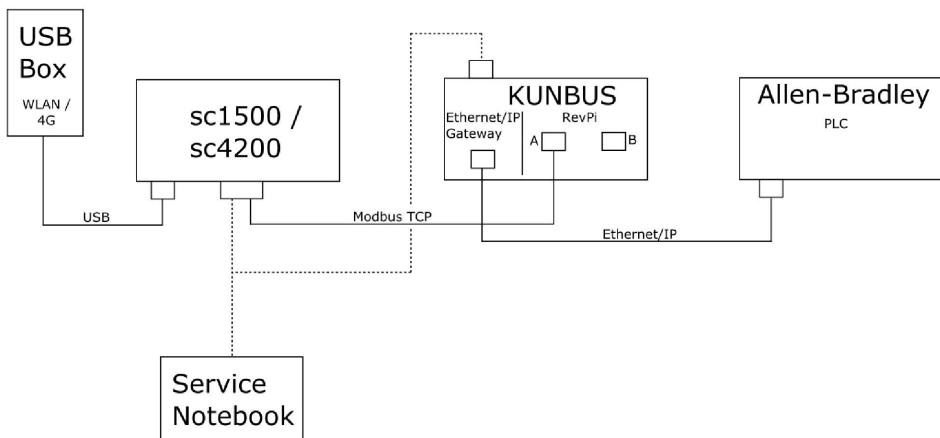
Czynność	Opis	Obraz
5	Potwierdź każde ustawienie przyciskiem Enter. Wyjmij pamięć USB.	
6	Włóż pamięć USB do lewego gniazda USB modułu RevPi.	

Czynność	Opis	Obraz
7	<p>Opis diod LED:</p> <ul style="list-style-type: none"> A1/A2 pomarańczowa: rozpoczyna się instalacja modułu RevPi. A1 czerwona, A2 wyłączona: włóż pamięć USB do modułu RevPi. A1 zielona, A2 wyłączona: pamięć USB włożona pomyślnie. A1 wyłączona, A2 zielona: moduł RevPi pobiera/przesyła dane do/z pamięci USB. A3 czerwona: moduł RevPi uruchamia się ponownie. <p>Jeśli A3 ma kolor czerwony, wyjmij pamięć USB.</p>	
8	Ustawienia RevPi zostały zakończone.	

Rozdział 4 Przykłady instalacji

Rysunek 1 przedstawia instalację z dwoma różnymi połączeniami LAN.

Rysunek 1 Przykład 1

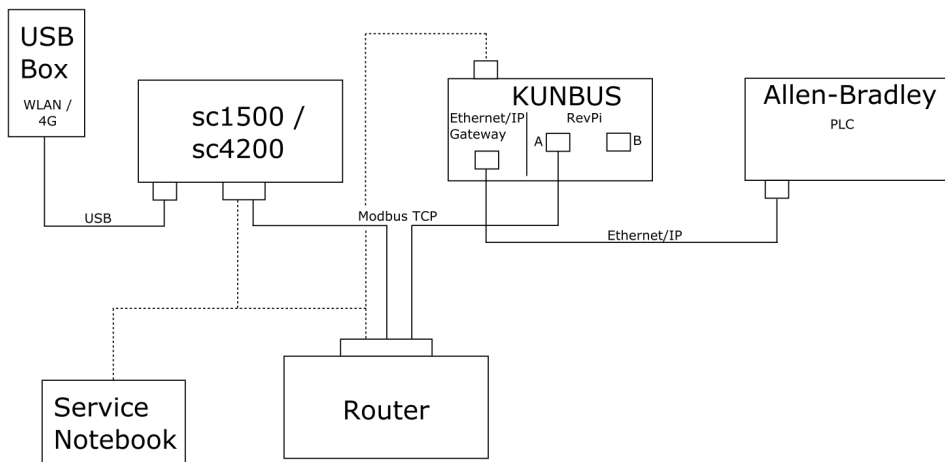


- Modbus TCP i Ethernet/IP używają dwóch różnych połączeń LAN.
- Wszystkie urządzenia mają statyczny adres IP.

- Przetwornik ma dostęp do Internetu za pośrednictwem sieci Wi-Fi lub sieci komórkowej.
- Do skonfigurowania adresów IP przetwornika i bramy sieci Ethernet/IP potrzebny jest laptop.

Rysunek 2 przedstawia instalację z routerem do połączenia Modbus TCP.

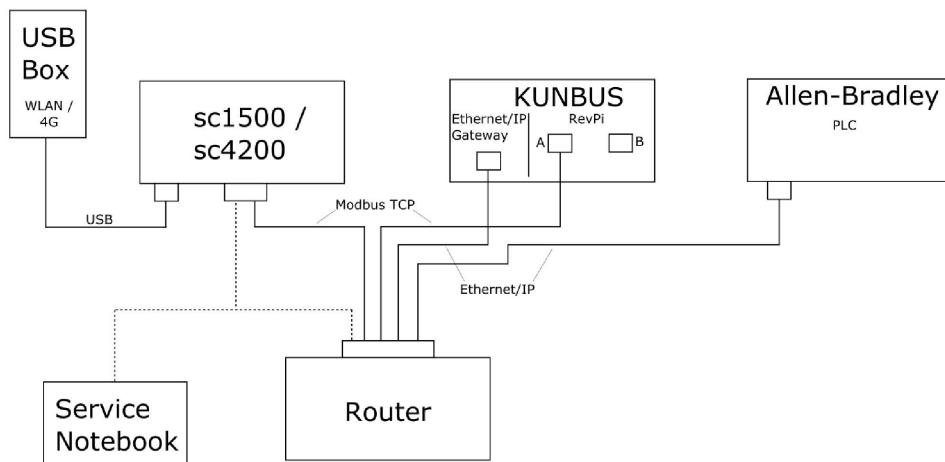
Rysunek 2 Przykład 2



- Protokół Modbus TCP jest podłączony do routera.
- Wszystkie urządzenia mają statyczny adres IP lub router ustawia adres IP przez DHCP.
Uwaga: Upewnij się, że router zawsze używa tego samego adresu IP dla tych samych urządzeń (MAC), jeśli używany jest protokół DHCP.
- Przetwornik ma dostęp do Internetu za pośrednictwem sieci Wi-Fi lub sieci komórkowej.
- Do skonfigurowania adresu IP przetwornika, bramy sieci Ethernet/IP oraz ustawień routera potrzebny jest laptop.

Rysunek 3 przedstawia instalację z routerem lub przełącznikiem dla wszystkich urządzeń.

Rysunek 3 Przykład 3

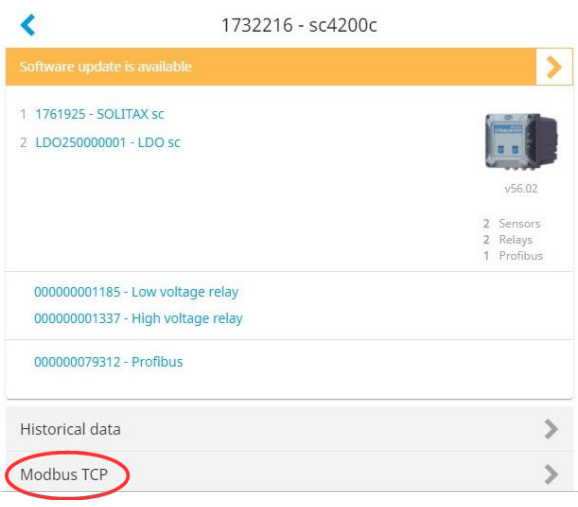
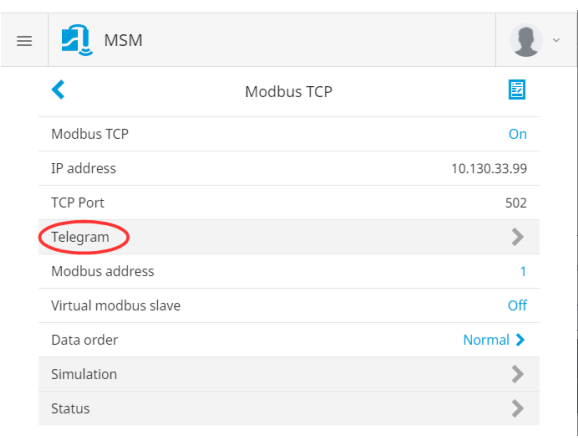


- Wszystkie urządzenia są połączone z routerem lub przełącznikiem.

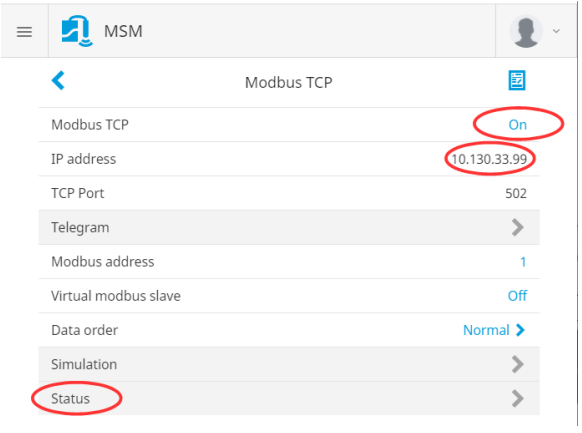
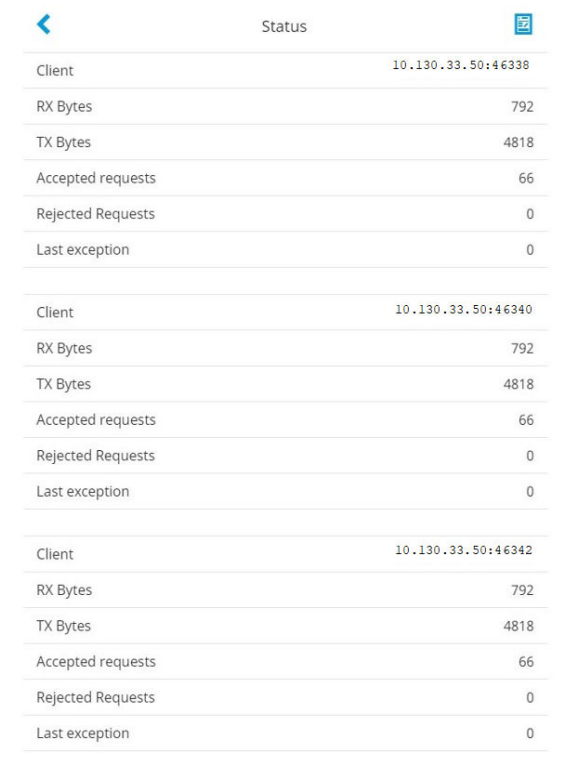
- Wszystkie urządzenia mają statyczny adres IP lub router/przełącznik ustawia adres IP przez DHCP.
Uwaga: Upewnij się, że router zawsze używa tego samego adresu IP dla tych samych urządzeń (MAC), jeśli używany jest protokół DHCP.
- Przetwornik ma dostęp do Internetu za pośrednictwem sieci Wi-Fi lub sieci komórkowej.
- Do skonfigurowania adresu IP przetwornika oraz ustawień routera potrzebny jest laptop.

Rozdział 5 Konfiguracja telegramu Modbus TCP przetwornika SC4200c

Uruchom aplikację Claros i postępuj zgodnie z podaną instrukcją.

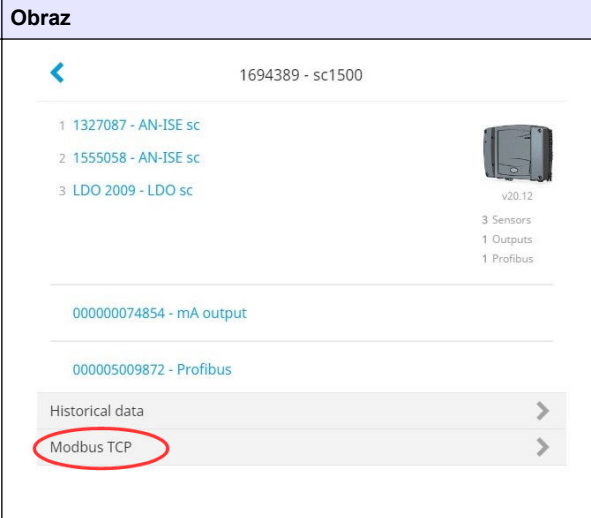
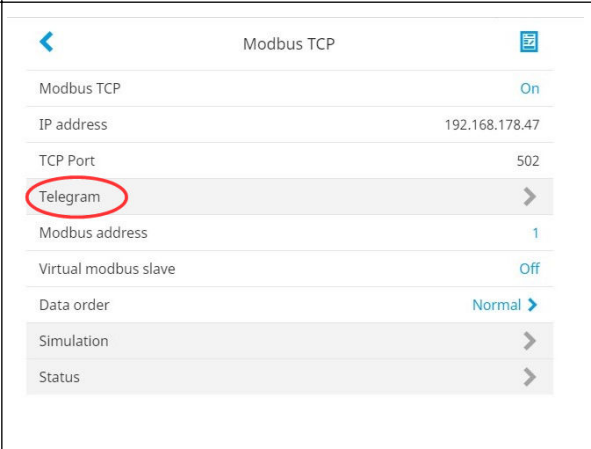
Czynność	Opis	Obraz
1	Wybierz menu przetwornika, a następnie naciśnij Modbus TCP .	
2	Wybierz opcję Telegram , aby ustawić telegram protokołu Modbus TCP.	

Czynność	Opis	Obraz
3	<p>Przedstawiony telegram jest przykładem czujnika LDO sc.</p> <p>Ustaw dla wartości Heartbeat (Puls) liczbę całkowitą. Heartbeat (Puls) to licznik, który przedstawia aktualizację wartości w odstępach jednosekundowych.</p> <p><i>Uwaga: Zawartość telegramu Modbus TCP jest taka sama jak telegramu Profibus.</i></p>	<p>The image contains two screenshots from the MSM (Modbus Slave Manager) interface. The top screenshot shows the 'Telegram' configuration screen. It features a header with the MSM logo and a user profile icon. Below the header, there is a back arrow, the title 'Telegram', and a '+ ADD SENSOR' button. A list of devices is shown with '1 devices' and a '+ ADD SENSOR' button. A search bar contains 'LDO250000001 LDO sc'. At the bottom, there are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the configuration for the sensor 'LDO250000001'. It has a header with the MSM logo and a user profile icon. Below the header, there is a back arrow, the title 'LDO250000001', and a 'DELETE SENSOR' button. A list of tags is shown: '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer). At the bottom, there are '+ ADD NEW TAG', 'CANCEL', and 'OK' buttons.</p>

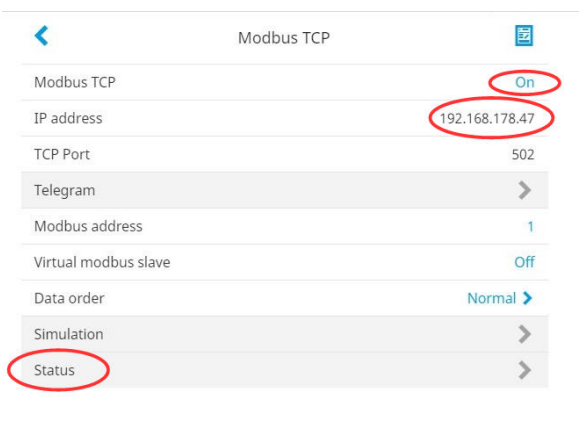
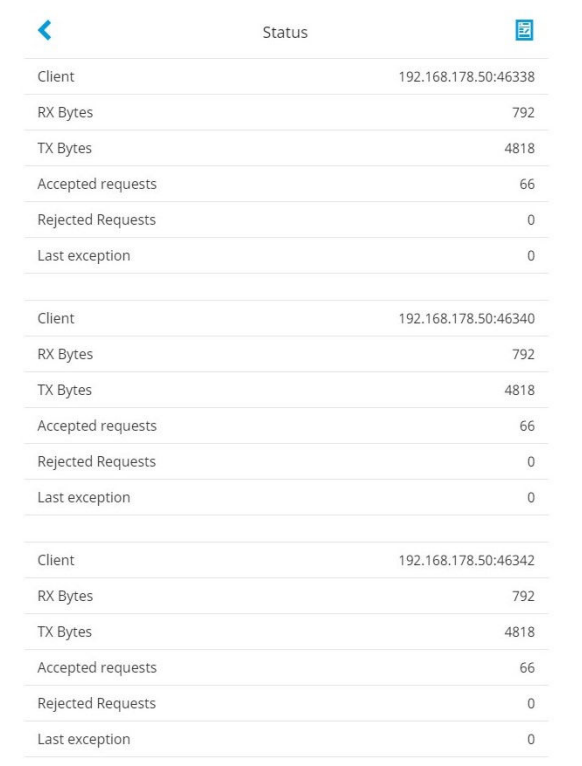
Czynność	Opis	Obraz																																				
4	<p>Menu Modbus TCP przedstawia adres IP przetwornika. 10.130.33.99 to adres IP ustawiony w menu serwisowym przetwornika.</p> <p>Ustaw dla opcji Modbus TCP wartość On (Wł.), a następnie naciśnij przycisk Status (Stan).</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. The 'On' toggle is circled in red. The IP address '10.130.33.99' is circled in red. The 'Status' button at the bottom is circled in red.</p>																																				
5	<p>W menu Status (Stan) są wyświetlane statystyki protokołu Modbus TCP. 10.130.33.50 to adres IP modułu RevPi. RevPi ma 5 urządzeń nadrzędnych Modbus TCP.</p>	 <p>The screenshot shows the 'Status' screen with statistics for three clients. The IP address 10.130.33.50 is highlighted for each client.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>10.130.33.50:46338</th> </tr> </thead> <tbody> <tr><td>RX Bytes</td><td>792</td></tr> <tr><td>TX Bytes</td><td>4818</td></tr> <tr><td>Accepted requests</td><td>66</td></tr> <tr><td>Rejected Requests</td><td>0</td></tr> <tr><td>Last exception</td><td>0</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Client</th> <th>10.130.33.50:46340</th> </tr> </thead> <tbody> <tr><td>RX Bytes</td><td>792</td></tr> <tr><td>TX Bytes</td><td>4818</td></tr> <tr><td>Accepted requests</td><td>66</td></tr> <tr><td>Rejected Requests</td><td>0</td></tr> <tr><td>Last exception</td><td>0</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Client</th> <th>10.130.33.50:46342</th> </tr> </thead> <tbody> <tr><td>RX Bytes</td><td>792</td></tr> <tr><td>TX Bytes</td><td>4818</td></tr> <tr><td>Accepted requests</td><td>66</td></tr> <tr><td>Rejected Requests</td><td>0</td></tr> <tr><td>Last exception</td><td>0</td></tr> </tbody> </table>	Client	10.130.33.50:46338	RX Bytes	792	TX Bytes	4818	Accepted requests	66	Rejected Requests	0	Last exception	0	Client	10.130.33.50:46340	RX Bytes	792	TX Bytes	4818	Accepted requests	66	Rejected Requests	0	Last exception	0	Client	10.130.33.50:46342	RX Bytes	792	TX Bytes	4818	Accepted requests	66	Rejected Requests	0	Last exception	0
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Rozdział 6 Konfiguracja telegramu Modbus TCP przetwornika SC1500

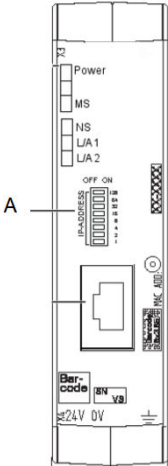
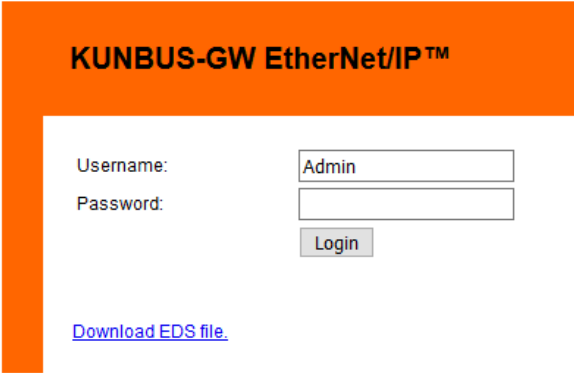
Uruchom aplikację Claros i postępuj zgodnie z podaną instrukcją.

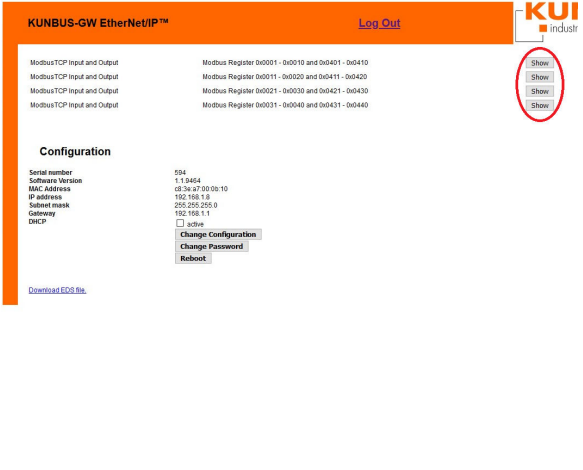
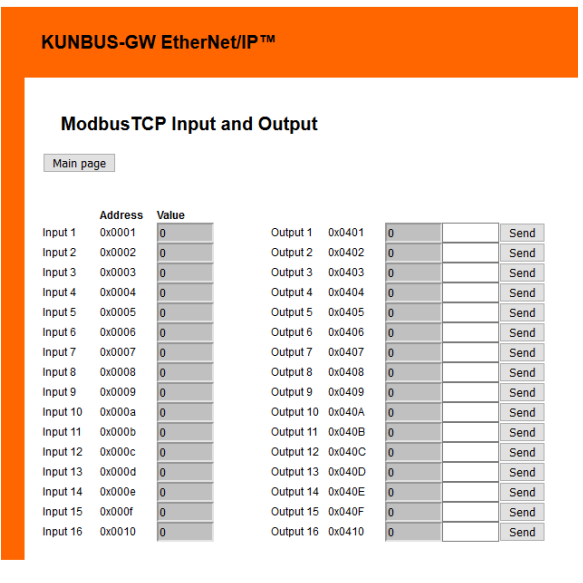
Czynność	Opis	Obraz
1	Wybierz menu przetwornika, a następnie naciśnij Modbus TCP .	
2	Wybierz opcję Telegram , aby ustawić telegram protokołu Modbus TCP.	

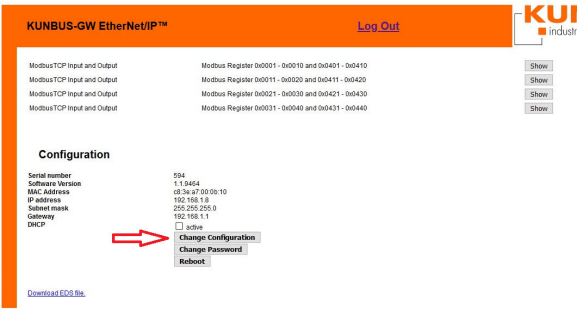

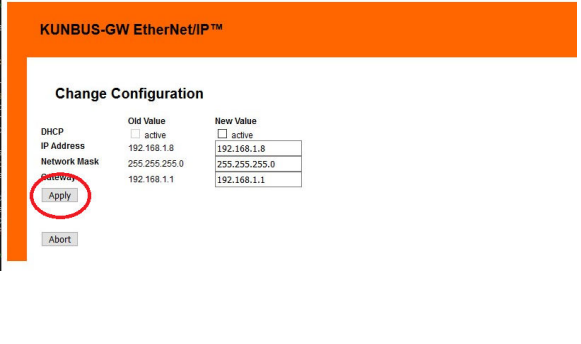
Czynność	Opis	Obraz
3	<p>Przedstawiony telegram jest przykładem czujnika LDO sc.</p> <p>Ustaw dla wartości Heartbeat (Puls) liczbę całkowitą. Heartbeat (Puls) to licznik, który przedstawia aktualizację wartości w odstępach jednosekundowych.</p> <p><i>Uwaga: Zawartość telegramu Modbus TCP jest taka sama jak telegramu Profibus.</i></p>	<p>The image contains two screenshots from a configuration application. The top screenshot is titled 'Telegram' and shows a list of devices with one entry: 'LDO 2009 LDO sc'. There are 'CANCEL' and 'SAVE' buttons at the bottom. The bottom screenshot is titled 'LDO 2009' and shows configuration details for a sensor, including '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer). It also has 'CANCEL' and 'OK' buttons.</p>

Czynność	Opis	Obraz																								
4	<p>Menu Modbus TCP przedstawia adres IP przetwornika. 192.168.178.47 to adres IP ustawiony w menu serwisowym przetwornika.</p> <p>Ustaw dla opcji Modbus TCP wartość On (Wł.), a następnie naciśnij przycisk Status (Stan).</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. The 'Modbus TCP' option is checked. The 'IP address' is set to '192.168.178.47'. The 'Status' option at the bottom is circled in red.</p>																								
5	<p>W menu Status (Stan) są wyświetlane statystyki protokołu Modbus TCP. 192.168.178.50 to adres IP modułu RevPi. RevPi ma 7 urządzeń nadrzędnych Modbus TCP.</p>	 <p>The screenshot shows the 'Status' screen with statistics for three clients. The first client is 192.168.178.50:46338, the second is 192.168.178.50:46340, and the third is 192.168.178.50:46342.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>192.168.178.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	192.168.178.50:46338	792	4818	66	0	0	192.168.178.50:46340	792	4818	66	0	0	192.168.178.50:46342	792	4818	66	0	0
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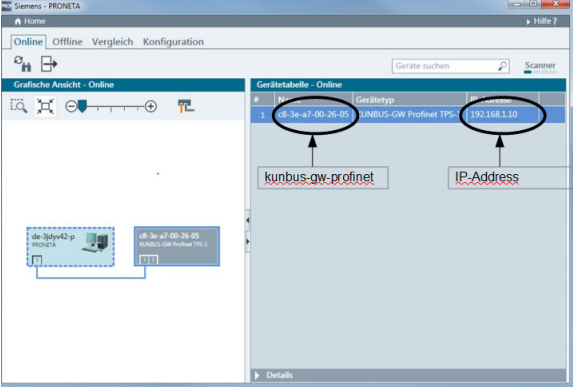
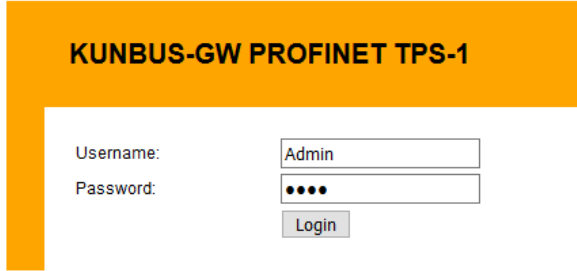
Rozdział 7 Konfiguracja bramy sieci Ethernet/IP

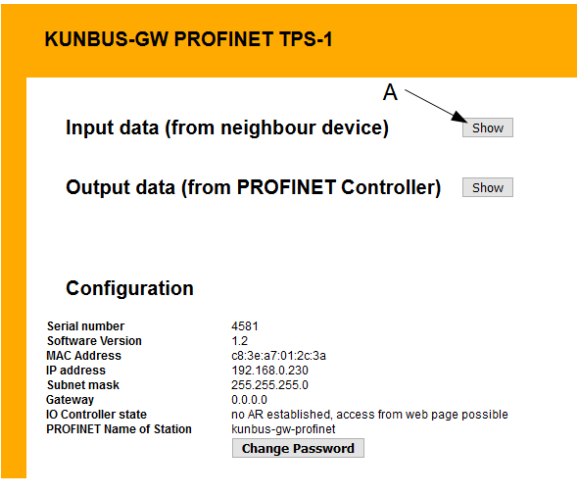
Czynność	Opis	Obraz
1	<ul style="list-style-type: none"> • Podłącz bramę sieci Ethernet/IP do komputera za pomocą kabla adaptera LAN-USB. • Patrz Wprowadzenie na stronie 294. Użyj łącza urządzenia podrzędnego bramy sieci Ethernet/IP. Postępuj zgodnie z instrukcjami w podręczniku producenta, <i>element bramy dla sieci EtherNet/IP</i>. • Przy użyciu 8-pozycyjnego przełącznika adresu (A) ustaw identyfikator hosta zgodnie z formatem binarnym bramy. <ul style="list-style-type: none"> • Przykład: Ustaw dla hosta wartość 8: 00010000 • Otwórz stronę internetową http://192.168.1.X (X = suma wszystkich włączonych przełączników). 	 <p>The diagram shows the front panel of the KUNBUS-GW EtherNet/IP device. At the top, there are labels for 'Power', 'MS', 'NIS', 'LIA 1', and 'LIA 2'. Below these is a row of eight switches labeled 'A' through 'H'. A line points from the letter 'A' to the first switch. To the right of the switches is a barcode and the text 'Barcode BIN V8'. At the bottom, there is a label '24V 0V'.</p>
2	<p>Uruchom przeglądarkę i wprowadź adres IP 192.168.1.X. Dane pierwszego logowania:</p> <p>Użytkownik: Admin Hasło: 1701 Naciśnij Login (Zaloguj).</p>	 <p>The screenshot shows the login page for the KUNBUS-GW EtherNet/IP device. The page has an orange header with the text 'KUNBUS-GW EtherNet/IP™'. Below the header is a white login form with the following fields and buttons:</p> <ul style="list-style-type: none"> Username: <input type="text" value="Admin"/> Password: <input type="password"/> <input type="button" value="Login"/> Download EDS file.

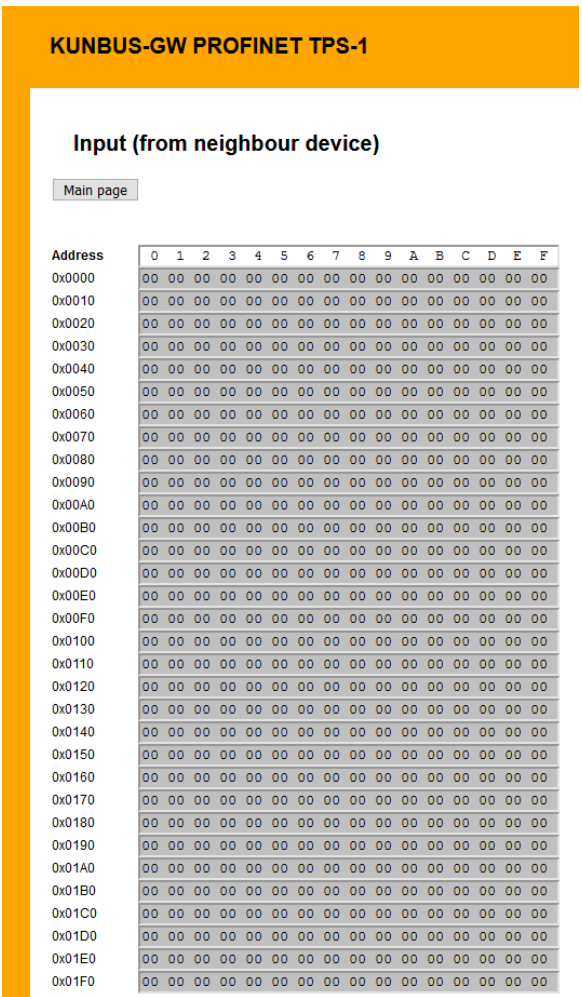
Czynność	Opis	Obraz																																																																																					
3	<p>Przetwornik i brama sieci Ethernet/IP przesyłają dane w zakresie 0000 – 01BF, czyli w zakresie 448 bajtów lub 112 liczb zmiennoprzecinkowych lub 224 liczb całkowitych lub ich kombinacji w oparciu o telegram typu Modbus TCP w przetworniku.</p> <p>Uwaga: Wyświetlany jest tylko pierwszy zakres danych, do 32 liczb całkowitych. Wyświetl wszystkie dane w sterowniku PLC (224 liczby całkowite).</p> <p>Naciśnij Show (Pokaż).</p>																																																																																						
4	<p>Zostanie wyświetlony wybrany obszar danych.</p>	 <table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1 0x0001</td><td>0</td><td>Output 1 0x0401</td><td>0</td><td>Send</td></tr> <tr><td>Input 2 0x0002</td><td>0</td><td>Output 2 0x0402</td><td>0</td><td>Send</td></tr> <tr><td>Input 3 0x0003</td><td>0</td><td>Output 3 0x0403</td><td>0</td><td>Send</td></tr> <tr><td>Input 4 0x0004</td><td>0</td><td>Output 4 0x0404</td><td>0</td><td>Send</td></tr> <tr><td>Input 5 0x0005</td><td>0</td><td>Output 5 0x0405</td><td>0</td><td>Send</td></tr> <tr><td>Input 6 0x0006</td><td>0</td><td>Output 6 0x0406</td><td>0</td><td>Send</td></tr> <tr><td>Input 7 0x0007</td><td>0</td><td>Output 7 0x0407</td><td>0</td><td>Send</td></tr> <tr><td>Input 8 0x0008</td><td>0</td><td>Output 8 0x0408</td><td>0</td><td>Send</td></tr> <tr><td>Input 9 0x0009</td><td>0</td><td>Output 9 0x0409</td><td>0</td><td>Send</td></tr> <tr><td>Input 10 0x000a</td><td>0</td><td>Output 10 0x040A</td><td>0</td><td>Send</td></tr> <tr><td>Input 11 0x000b</td><td>0</td><td>Output 11 0x040B</td><td>0</td><td>Send</td></tr> <tr><td>Input 12 0x000c</td><td>0</td><td>Output 12 0x040C</td><td>0</td><td>Send</td></tr> <tr><td>Input 13 0x000d</td><td>0</td><td>Output 13 0x040D</td><td>0</td><td>Send</td></tr> <tr><td>Input 14 0x000e</td><td>0</td><td>Output 14 0x040E</td><td>0</td><td>Send</td></tr> <tr><td>Input 15 0x000f</td><td>0</td><td>Output 15 0x040F</td><td>0</td><td>Send</td></tr> <tr><td>Input 16 0x0010</td><td>0</td><td>Output 16 0x0410</td><td>0</td><td>Send</td></tr> </tbody> </table>	Address	Value				Input 1 0x0001	0	Output 1 0x0401	0	Send	Input 2 0x0002	0	Output 2 0x0402	0	Send	Input 3 0x0003	0	Output 3 0x0403	0	Send	Input 4 0x0004	0	Output 4 0x0404	0	Send	Input 5 0x0005	0	Output 5 0x0405	0	Send	Input 6 0x0006	0	Output 6 0x0406	0	Send	Input 7 0x0007	0	Output 7 0x0407	0	Send	Input 8 0x0008	0	Output 8 0x0408	0	Send	Input 9 0x0009	0	Output 9 0x0409	0	Send	Input 10 0x000a	0	Output 10 0x040A	0	Send	Input 11 0x000b	0	Output 11 0x040B	0	Send	Input 12 0x000c	0	Output 12 0x040C	0	Send	Input 13 0x000d	0	Output 13 0x040D	0	Send	Input 14 0x000e	0	Output 14 0x040E	0	Send	Input 15 0x000f	0	Output 15 0x040F	0	Send	Input 16 0x0010	0	Output 16 0x0410	0	Send
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Czynność	Opis	Obraz															
5	<p>Naciśnij Change Configuration (Zmień konfigurację), aby ustawić adres IP.</p>	 <p>KUNBUS-GW EtherNet/IP™ Log Out </p> <p>Modbus TCP Input and Output Modbus Register 0x0001 - 0x0010 and 0x0401 - 0x0410 Show</p> <p>Modbus TCP Input and Output Modbus Register 0x0011 - 0x0020 and 0x0411 - 0x0420 Show</p> <p>Modbus TCP Input and Output Modbus Register 0x0021 - 0x0030 and 0x0421 - 0x0430 Show</p> <p>Modbus TCP Input and Output Modbus Register 0x0031 - 0x0040 and 0x0431 - 0x0440 Show</p> <p>Configuration</p> <p>Serial number: 994 Software Version: 1.1.0.4.4 MAC Address: 08:3e:27:0b:2b:10 IP Address: 192.168.1.8 Subnet mask: 255.255.255.0 Gateway: 192.168.1.1 DHCP: <input type="checkbox"/> active</p> <p>Change Configuration (highlighted with a red arrow) Change Password Reboot</p> <p>Download FDS file</p>															
6	<p>Zmień adres IP zgodnie z adresem bramy.</p> <p>Naciśnij Apply (Zastosuj), aby zatwierdzić wybór.</p> <p>Ustaw wszystkie mikroprzełączniki w pozycji wyłączonej.</p> <p>Wyłącz zasilanie bramy, a następnie uruchom ją ponownie.</p> <p>Używany jest teraz nowy adres IP.</p>	 <p>KUNBUS-GW EtherNet/IP™</p> <p>Change Configuration</p> <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td><input checked="" type="checkbox"/> active</td> <td><input type="checkbox"/> active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table> <p>Apply (circled in red) Abort</p>		Old Value	New Value	DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0	Gateway	192.168.1.1	192.168.1.1
	Old Value	New Value															
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IP Address	192.168.1.8	192.168.1.8															
Network Mask	255.255.255.0	255.255.255.0															
Gateway	192.168.1.1	192.168.1.1															

Rozdział 8 Skonfiguruj bramę sieci Profinet

Czynność	Opis	Obraz
1	<ul style="list-style-type: none"> Podłącz bramę sieci Profinet do komputera za pomocą adaptera LAN-LAN. Patrz Wprowadzenie na stronie 294. Użyj łącza urządzenia podrzędnego bramy Profinet IRT. Postępuj zgodnie z instrukcjami w podręczniku producenta, <i>element bramy dla sieci PROFINET</i>. Przy użyciu oprogramowania PRONETA ustaw nazwę kunbus-gw-profinet. Wprowadź używany adres IP. 	
2	<p>Uruchom przeglądarkę i wprowadź adres IP. Dane pierwszego logowania: Użytkownik: Admin Hasło: 1701 Naciśnij Login (Zaloguj).</p>	

Czynność	Opis	Obraz																
3	Naciśnij Show (Pokaż) (A), aby wyświetlić dane wejściowe.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
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Software Version	1.2																	
MAC Address	c8:3e:a7:01:2c:3a																	
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4	<p>Przedstawia wszystkie dane wysłane z przetwornika do bramy sieci Profinet.</p> <p>Przetwornik i brama sieci Profinet przesyłają dane w zakresie 0000 – 01BF, czyli w zakresie 448 bajtów lub 112 liczb zmiennoprzecinkowych lub 224 liczb całkowitych lub ich kombinacji w oparciu o telegram typu Modbus TCP w przetworniku.</p>	 <p style="text-align: center;">KUNBUS-GW PROFINET TPS-1</p> <p style="text-align: center;">Input (from neighbour device)</p> <p style="text-align: center;">Main page</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Address</th> <th>0</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th> </tr> </thead> <tbody> 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Rozdział 9 Rozwiązywanie problemów

9.1 Rozwiązywanie problemów z RevPi

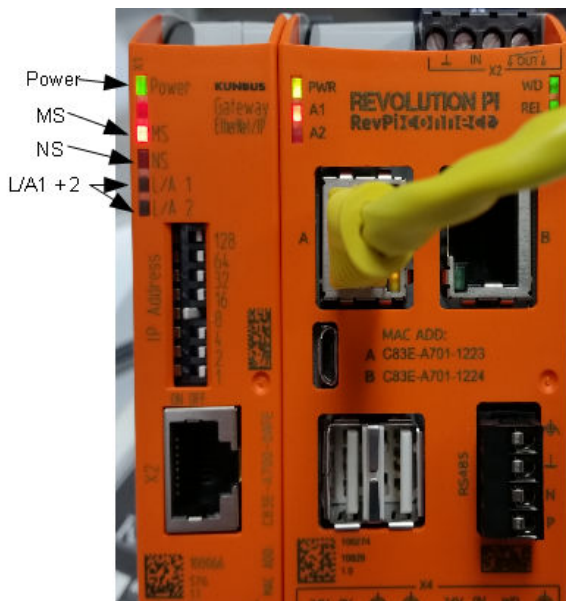
Rysunek 4 Moduł podstawowy RevPi



Komunikat	Opis	Rozwiązanie
Dioda LED A2 miga na czerwono.	Komunikacja została zatrzymana.	<ul style="list-style-type: none">• Podłącz kabel sieciowy (kabel lub router).• Ustaw dla adresu Modbus w Claros wartość 1.• W menu Claros ustaw dla opcji Modbus TCP wartość On (Wł.).
Dioda LED A3 miga powoli na czerwono.	Konfiguracja bramy sieci Ethernet/IP i Profinet jest mieszana.	Patrz Uruchom konfigurację USB na stronie 296, krok 4 i wybierz właściwy typ bramy: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Rozwiązywanie problemów z siecią Ethernet/IP

Rysunek 5 Brama sieci Ethernet/IP

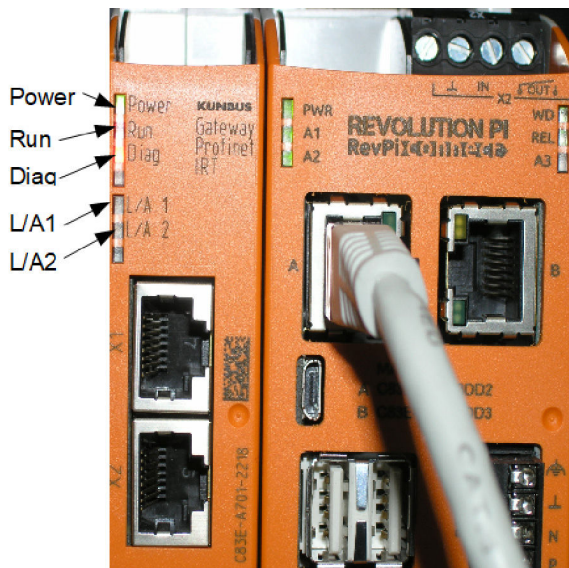


Komunikat	Opis	Rozwiązanie
Dioda LED zasilania nie świeci.	Brama sieci Ethernet/IP jest wyłączona.	Włączanie zasilania.
Dioda LED zasilania miga na zielono.	Procedura uruchamiania nie została zakończona.	Odczekaj kilka minut.
Dioda LED zasilania miga na czerwono.	Wyświetla ostrzeżenie.	Sprawdź, czy wszystkie urządzenia są podłączone.
Dioda LED zasilania świeci na czerwono.	Wyświetla błąd.	Brama sieci Ethernet/IP jest uszkodzona. Wymień bramę sieci Ethernet/IP.
Dioda LED MS nie świeci.	Brama sieci Ethernet/IP jest wyłączona.	Włącz zasilanie.
Dioda LED MS miga na zielono.	Procedura konfiguracji nie została zakończona.	Odczekaj kilka minut.
Dioda LED MS miga na czerwono.	Wyświetla błąd konfiguracji.	Aby sprawdzić konfigurację, patrz Konfiguracja bramy sieci Ethernet/IP na stronie 307.
Dioda LED MS świeci na czerwono.	Wyświetla błąd.	Brama sieci Ethernet/IP jest uszkodzona. Wymień bramę sieci Ethernet/IP.
Dioda LED MS miga na czerwono i zielono.	Autotest nie został zakończony.	Odczekaj kilka minut.

Komunikat	Opis	Rozwiązanie
Dioda LED NS nie świeci.	Brama sieci Ethernet/IP jest wyłączona lub nie ma adresu IP.	Włącz zasilanie. Skonfiguruj adres IP.
Dioda LED NS miga na zielono.	Adres IP jest ustawiony, ale połączenie CIP nie zostało nawiązane.	Odczekaj kilka minut.
Dioda LED NS miga na czerwono.	Połączenie CIP zostało zatrzymane.	Sprawdź, czy nie upłynął limit czasu.
Dioda LED NS świeci na czerwono.	Wybrany adres IP jest używany przez inne urządzenie.	Zmień adres IP na unikatowy adres IP.
Dioda LED L/A 1 lub 2 nie świeci.	Brak połączenia z innymi urządzeniami.	Połącz się z urządzeniem.
Dioda LED L/A 1 lub 2 miga na zielono.	Brak wymiany danych.	Poczekaj na następną wymianę danych.

9.3 Rozwiązywanie problemów z siecią Profinet

Rysunek 6 Brama sieci Profinet



Komunikat	Opis	Rozwiązanie
Dioda LED zasilania nie świeci.	Brama sieci Profinet jest wyłączona.	Włącz zasilanie.
Dioda LED zasilania miga na zielono.	Procedura uruchamiania nie została zakończona.	Odczekaj kilka minut.
Dioda LED zasilania miga na czerwono.	Wyświetla ostrzeżenie.	Sprawdź, czy wszystkie urządzenia są zainstalowane.

Komunikat	Opis	Rozwiązanie
Dioda LED zasilania świeci na czerwono.	Wyświetla błąd.	Brama sieci Profinet jest uszkodzona. Wymień bramę sieci Profinet.
Dioda LED Run nie świeci.	Brak połączenia z siecią.	Połącz z siecią.
Dioda LED Run miga na zielono.	Przetwornik sieci Profinet jest podłączony, ale nie ma wymiany danych.	Poczekaj na następną wymianę danych.
Dioda LED Run miga powoli na zielono.	Uruchamia narzędzie do identyfikacji elementu bramy.	Odczekaj kilka minut.
Dioda LED diagnostyki miga na czerwono.	Uruchamia narzędzie do identyfikacji elementu bramy.	Odczekaj kilka minut.
Dioda LED diagnostyki miga szybko na czerwono.	Brak połączenia z przetwornikiem. W module nie ustawiono nazwy sieci Profinet.	Aby dowiedzieć się, jak ustawić nazwę, patrz Skonfiguruj bramę sieci Profinet na stronie 310.
Dioda LED diagnostyki świeci na czerwono.	Urządzenie bramy przesyła dane diagnostyczne.	Patrz raport diagnostyczny.
Dioda LED L/A 1 lub 2 nie świeci.	Brak połączenia z siecią.	Połącz z siecią.
Dioda LED L/A 1 lub 2 miga na zielono.	Wymiana danych.	Poczekaj na zakończenie wymiany danych.

Cuprins

- | | | | |
|---|---|---|---|
| 1 | Domeniu de utilizare de la pagina 317 | 7 | Configurarea Ethernet/IP Gateway de la pagina 329 |
| 2 | Introducere de la pagina 317 | 8 | Configurarea Profinet Gateway de la pagina 332 |
| 3 | Începerea configurației USB de la pagina 319 | 9 | Depanare de la pagina 335 |
| 4 | Exemple de instalare de la pagina 320 | | |
| 5 | Configurarea telegramei TCP Modbus de pe controlerul SC4200c de la pagina 323 | | |
| 6 | Configurarea telegramei Modbus TCP de pe controlerul SC1500 de la pagina 326 | | |

Secțiunea 1 Domeniu de utilizare

Aceste instrucțiuni de configurare sunt destinate utilizării de către persoane care integrează Ethernet/IP Gateway sau Profinet Gateway extern ca și componente hardware în rețeaua Claros.

Secțiunea 2 Introducere

Producătorul nu este responsabil pentru daunele cauzate de utilizarea incorectă a acestui produs, inclusiv și fără a se limita la daunele directe, accidentale sau importante și neagă responsabilitatea pentru astfel de daune în măsura maximă permisă de lege. Utilizatorul este unicul responsabil pentru identificarea riscurilor critice și pentru instalarea de mecanisme corespunzătoare pentru protejarea proceselor în cazul unei posibile defectări a echipamentului.

▲ PERICOL



Pericol de electrocutare. Întrerupeți întotdeauna alimentarea instrumentului înainte de a realiza conexiuni electrice.

Articole de colectat:

- Stick USB formatat ca FAT32
- PC cu Windows¹ 10
- Modul:
 - Pentru implementarea Ethernet/IP:
 - LXZ446.99.00001: modul de bază RevPi GATEWAY IloT
 - LXZ446.99.00002: slave GATEWAY Ethernet/IP
 - LXZ446.99.00003: punte pentru PiBridge
 - Pentru implementarea Profinet:
 - LXZ446.99.00001: modul de bază RevPi GATEWAY IloT
 - LXZ446.99.00007: slave GATEWAY Profinet IRT
 - LXZ446.99.00003: punte pentru PiBridge

Conectați cele trei module RevPi, slave și PiBridge la sursa de alimentare electrică și LAN.

Consultați legăturile din tabelul care urmează pentru mai multe informații de la producătorul de module.

¹ Microsoft® Windows® este marcă comercială înregistrată a Microsoft Corporation în Statele Unite și alte țări.

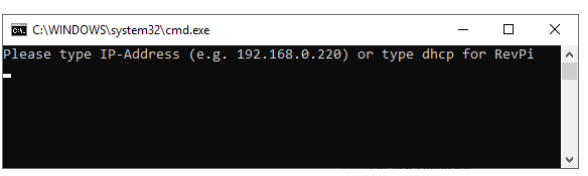
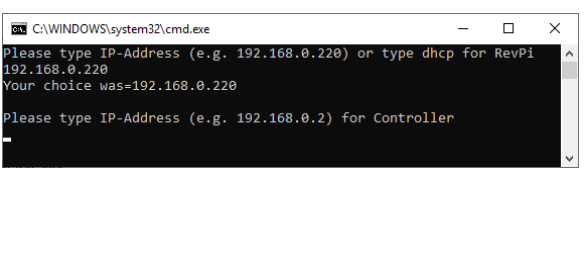
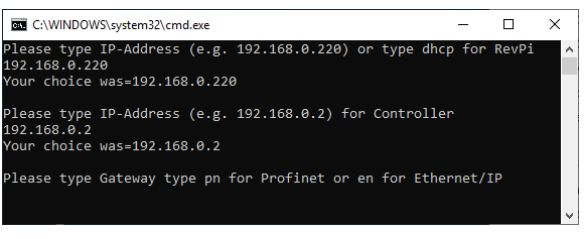
Modul	Legătură
Slave GATEWAY Profinet IRT	https://www.kunbus.com/profinet-irt-gateway-module.html
Slave GATEWAY Ethernet/IP	https://www.kunbus.com/ethernet-ip-gateway-module.html
Modul de bază RevPi GATEWAY IIoT	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
Instrucțiuni de conectare a modulelor RevPi	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Instrucțiuni de instalare a modulelor RevPi pe o șină DIN	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Instrucțiuni de conectare la sursa de alimentare electrică	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

Pregătiți stick-ul USB

1. Introduceți un stick USB gol în PC.
2. Accesați <https://www.hach.com> și căutați cuvintele cheie „instalare ethernet/IP usb” sau „instalare profinet usb”.
3. Descărcați USB_ETHIP_PRNET.zip.
4. Dezarhivați fișierul în directorul rădăcină al stick-ului USB.

Secțiunea 3 Începerea configurației USB

Introduceți stick-ul USB pregătit în PC.

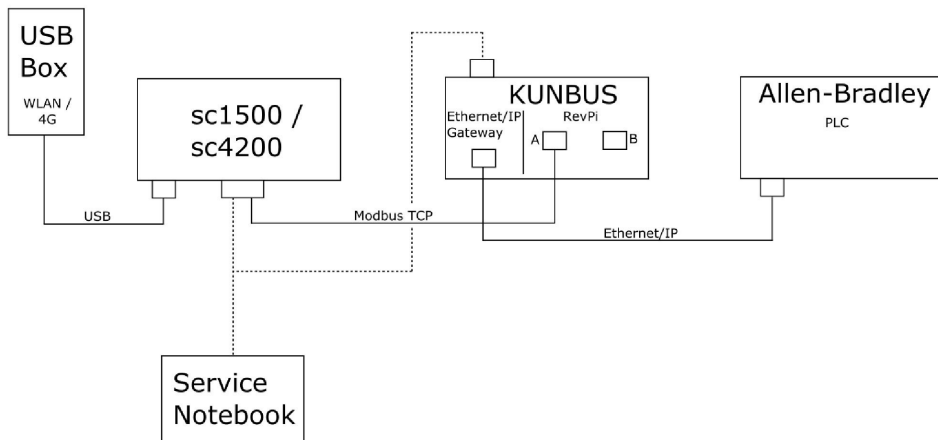
Pasul	Descriere	Imagine
1	Inițializați start_usb_config.bat. Se deschide o fereastră terminală. Urmați ghidul pas cu pas.	
2	Introduceți adresa IP a modului RevPi.	
3	Introduceți adresa IP a controlerului SC. Asigurați-vă că prefixul rețelei este același cu cel al modului RevPi (de ex., 192.168.0). Asigurați-vă dacă identificatorul gazdei diferă de modulul RevPi (de ex., 220 RevPi, controlerul 2).	
4	Introduceți tipul Gateway: <ul style="list-style-type: none">• pn—Profinet• en—Ethernet/IP	

Pasul	Descriere	Imagine
5	Confirmați setările apăsând Enter (Introducere). Scoateți stick-ul USB.	
6	Introduceți stick-ul USB în priza USB stângă a modulului RevPi.	
7	Descrierea LED-ului: <ul style="list-style-type: none"> • A1/A2 portocaliu: începe instalarea RevPi. • A1 roșu, A2 stins: RevPi introduce stick-ul USB. • A1 verde, A2 stins: stick-ul USB a fost introdus cu succes. • A1 stins, A2 verde: RevPi descarcă/încarcă datele de pe stick-ul USB. • A3 roșu: RevPi repornește. <p>Atunci când A3 este roșu, scoateți stick-ul USB.</p>	
8	Setările RevPi sunt finalizate.	

Secțiunea 4 Exemple de instalare

Figura 1 afișează o instalare cu două conexiuni LAN diferite.

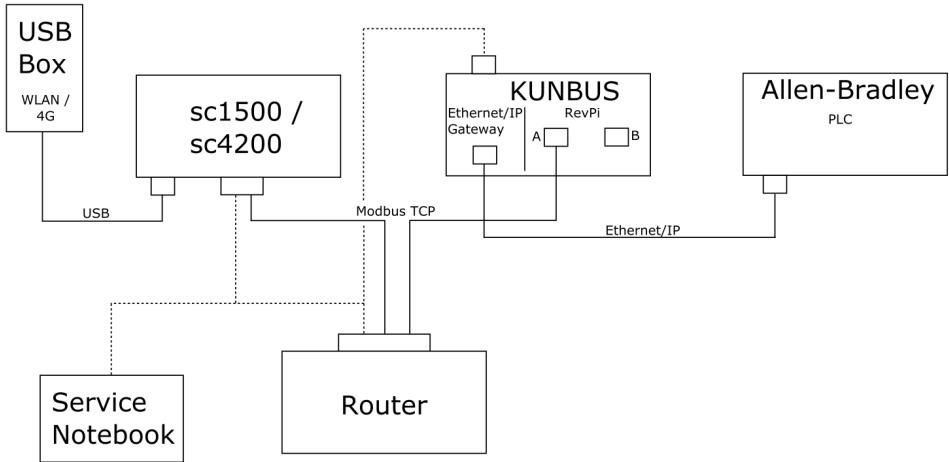
Figura 1 Exemplul 1



- Modbus TCP și Ethernet/IP utilizează două conexiuni LAN diferite.
- Toate dispozitivele au o adresă IP statică.
- Controlerul are acces la internet prin conexiunea Wi-Fi sau celulară.
- Pentru a configura adresele IP ale controlerului și Ethernet/IP Gateway, este nevoie de un laptop.

Figura 2 afișează o instalare cu un ruter pentru conexiunea Modbus TCP.

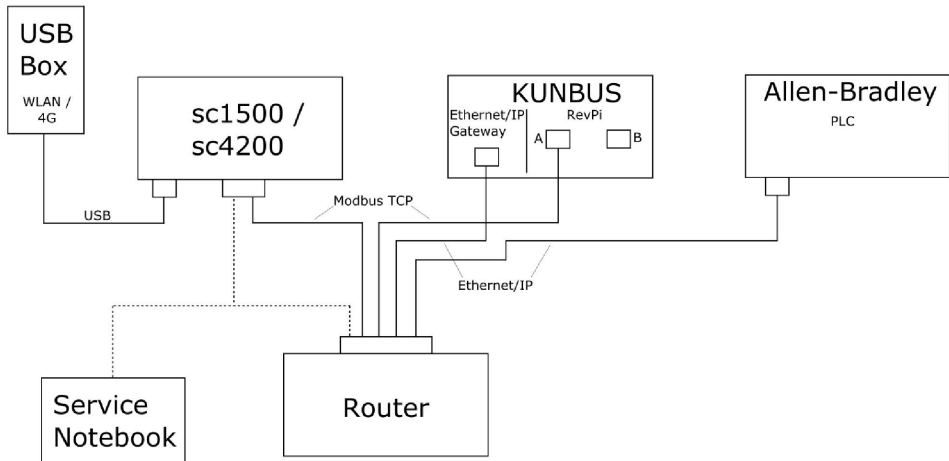
Figura 2 Exemplul 2



- Modbus TCP este conectat la un ruter.
- Toate dispozitivele au o adresă IP statică sau ruterul setează adresa IP prin intermediul DHCP.
Notă: Asigurați-vă că ruterul utilizează întotdeauna aceeași adresă IP pentru aceleași dispozitive (MAC) dacă se utilizează DHCP.
- Controlerul are acces la internet prin conexiunea Wi-Fi sau celulară.
- Pentru a configura adresa IP a controlerului, Ethernet/IP Gateway și setările ruterului, este nevoie de un laptop.

Figura 3 afișează o instalare cu un ruter sau comutator pentru toate dispozitivele.

Figura 3 Exemplul 3

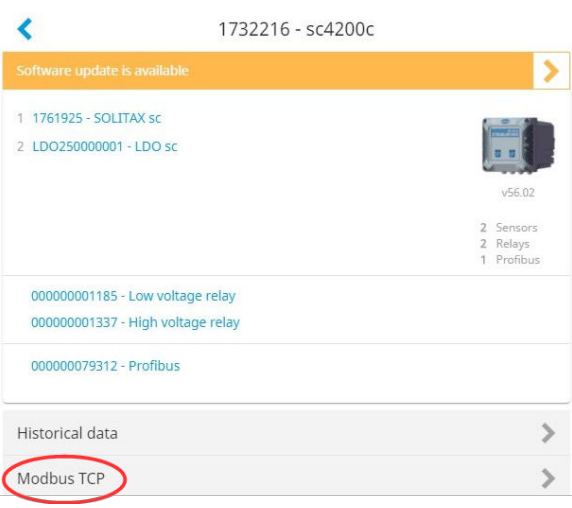
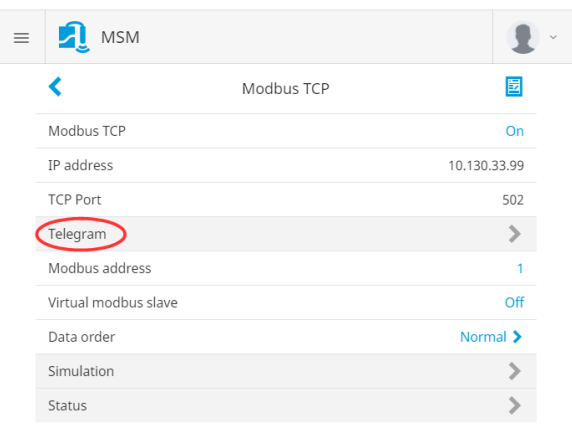


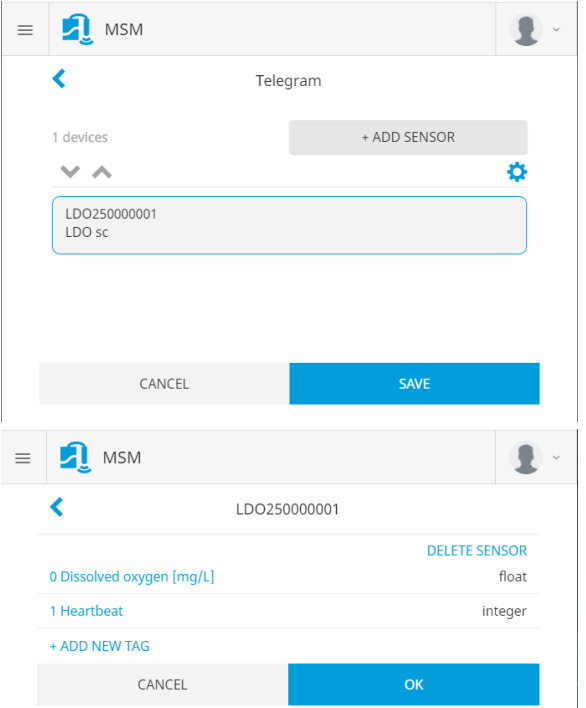
- Toate dispozitivele sunt conectate la un ruter sau un comutator.

- Toate dispozitivele au o adresă IP statică sau ruterul sau comutatorul setează adresa IP prin intermediul DHCP.
Notă: Asigurați-vă că ruterul utilizează întotdeauna aceeași adresă IP pentru aceleași dispozitive (MAC) dacă se utilizează DHCP.
- Controlerul are acces la internet prin conexiunea Wi-Fi sau celulară.
- Pentru a configura adresa IP a controlerului și setările ruterului, este nevoie de un laptop.

Secțiunea 5 Configurarea telegramei TCP Modbus de pe controlerul SC4200c

Porniți aplicația Claros și urmați ghidul pas cu pas.

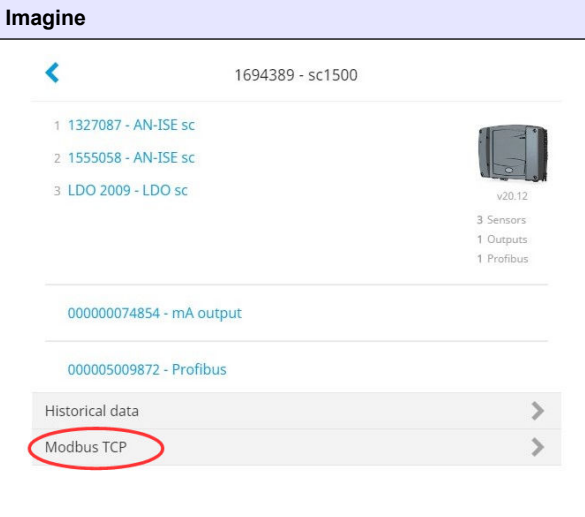
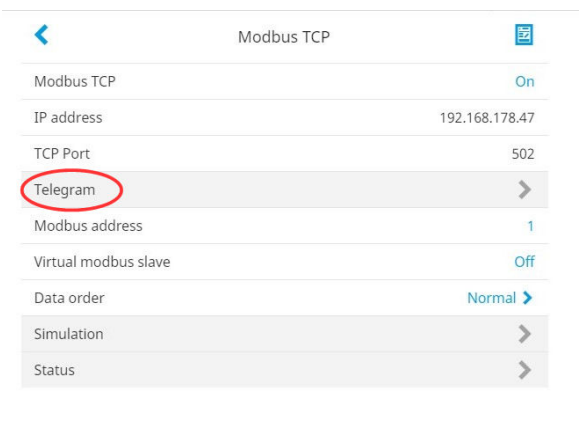
Pasul	Descriere	Imagine
1	<p>Selecționați meniul controller (Controler), apoi apăsați Modbus TCP.</p>	 <p>The screenshot shows the main interface of the SC4200c controler. At the top, it displays '1732216 - sc4200c'. Below this, there is a yellow banner that says 'Software update is available'. A list of components is shown: '1 1761925 - SOLITAX sc' and '2 LDO250000001 - LDO sc'. To the right of this list is a small image of the controler unit with the version 'v56.02' and a list of features: '2 Sensors', '2 Relays', and '1 Profibus'. Below the component list, there are three entries: '00000001185 - Low voltage relay', '00000001337 - High voltage relay', and '000000079312 - Profibus'. At the bottom, there is a 'Historical data' section and a 'Modbus TCP' option which is circled in red.</p>
2	<p>Selecționați Telegram (Telegramă) pentru a seta telegrama Modbus TCP.</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, it says 'MSM' and 'Modbus TCP'. Below this, there are several settings: 'Modbus TCP' is set to 'On', 'IP address' is '10.130.33.99', 'TCP Port' is '502', 'Telegram' is circled in red, 'Modbus address' is '1', 'Virtual modbus slave' is 'Off', 'Data order' is 'Normal', 'Simulation' is 'Off', and 'Status' is 'Off'. Each setting has a right-pointing arrow to indicate it can be edited.</p>

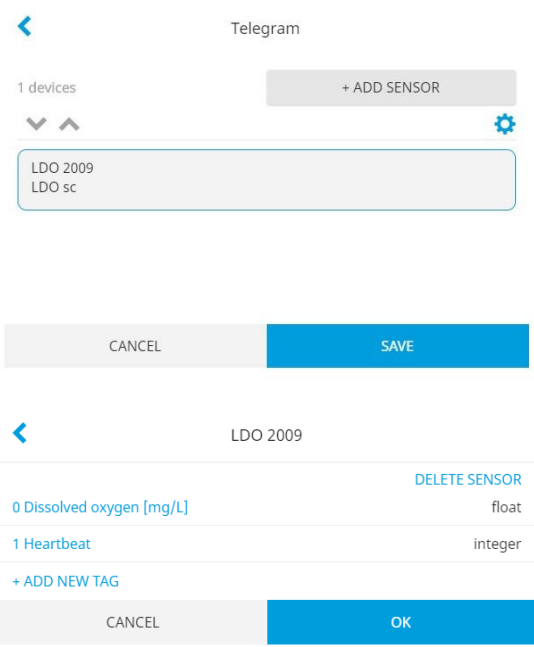
Pasul	Descriere	Imagine
3	<p>Telegrama afișată este un exemplu pentru senzorul LDO sc.</p> <p>Setați Heartbeat (Bătăi cardiace) la Integer (Întreg). Heartbeat (Bătăi cardiace) este un contor care afișează actualizarea valorii în incremente de o secundă.</p> <p>Notă: Conținutul telegramei TCP Modbus este același cu cel al telegramei Profibus.</p>	 <p>The image contains two screenshots from the MSM (Modbus Slave Manager) interface. The top screenshot shows the 'Telegram' configuration screen. It features a header with the MSM logo and a user profile icon. Below the header, there is a back arrow and the title 'Telegram'. A section labeled '1 devices' contains a list of sensors: 'LDO250000001' and 'LDO sc'. To the right of this list is a '+ ADD SENSOR' button and a gear icon for settings. At the bottom, there are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the configuration for the selected sensor 'LDO250000001'. It has a back arrow and the sensor ID in the header. Below, there is a 'DELETE SENSOR' link. The sensor list shows '0 Dissolved oxygen [mg/L]' with a 'float' data type and '1 Heartbeat' with an 'integer' data type. A '+ ADD NEW TAG' button is also present. At the bottom, there are 'CANCEL' and 'OK' buttons.</p>

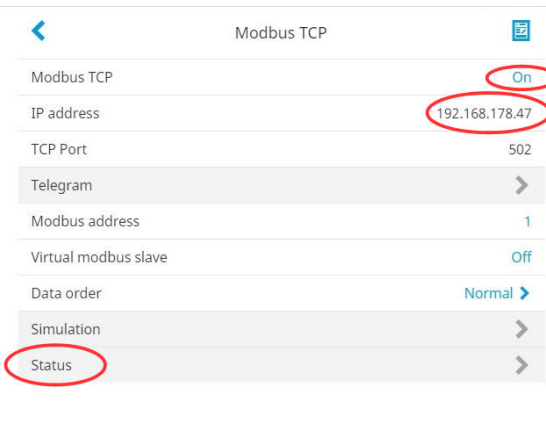
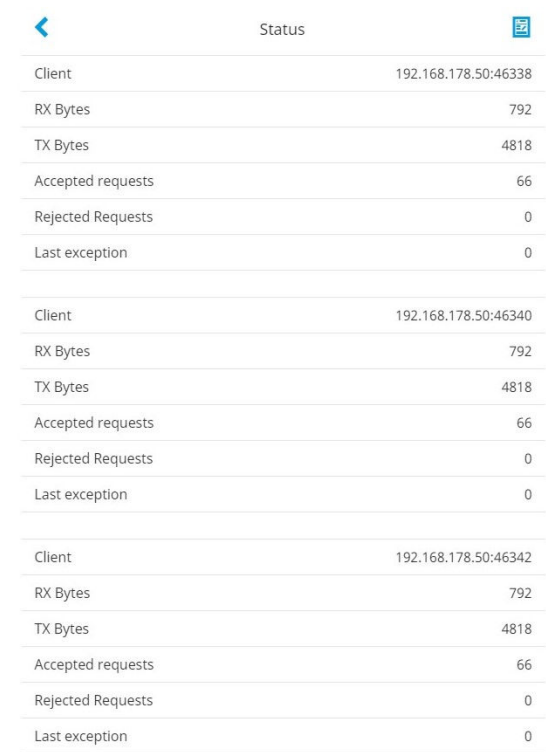
Pasul	Descriere	Imagine
4	<p>Meniul Modbus TCP afișează adresa IP a controlerului.</p> <p>10.130.33.99 este adresa IP setată în meniul Controler Service (Service controler).</p> <p>Setați Modbus TCP la On (Pornit), apoi apăsați Status (Stare).</p>	<p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a hamburger menu icon, the 'MSM' logo, and a user profile icon. Below this is a back arrow and the title 'Modbus TCP' with a help icon. The configuration items are: 'Modbus TCP' (set to 'On'), 'IP address' (set to '10.130.33.99'), 'TCP Port' (set to '502'), 'Telegram' (with a right arrow), 'Modbus address' (set to '1'), 'Virtual modbus slave' (set to 'Off'), 'Data order' (set to 'Normal' with a right arrow), 'Simulation' (with a right arrow), and 'Status' (with a right arrow). The 'On', '10.130.33.99', and 'Status' elements are circled in red.</p>
5	<p>Meniul Status (Stare) afișează statisticile Modbus TCP. 10.130.33.50 este adresa IP a modulului RevPi. RevPi este prevăzut cu un master Modbus TCP 5.</p>	<p>The screenshot shows the 'Status' screen with a back arrow and the title 'Status' with a help icon. It displays statistics for three clients, each with a unique ID: '10.130.33.50:46338', '10.130.33.50:46340', and '10.130.33.50:46342'. For each client, the following statistics are shown: 'Client' (with the ID), 'RX Bytes', 'TX Bytes', 'Accepted requests', 'Rejected Requests', and 'Last exception'. The values for RX Bytes, TX Bytes, Accepted requests, and Rejected Requests are consistent across all three clients, while Last exception is 0 for all.</p>

Secțiunea 6 Configurarea telegramei Modbus TCP de pe controlerul SC1500

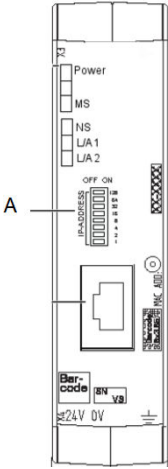
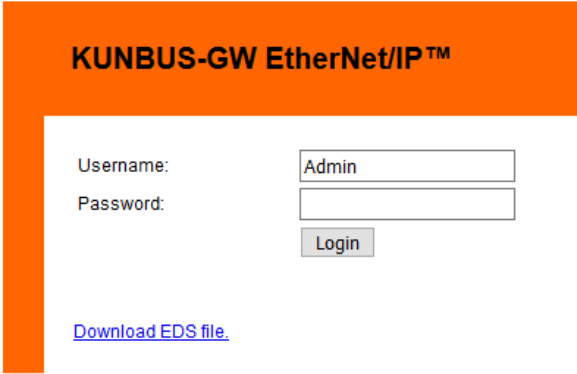
Porniți aplicația Claros și urmați ghidul pas cu pas.

Pasul	Descriere	Imagine
1	Selectați meniul controller (Controler), apoi apăsați Modbus TCP .	 <p>1694389 - sc1500</p> <ul style="list-style-type: none">1 1327087 - AN-ISE sc2 1555058 - AN-ISE sc3 LDO 2009 - LDO sc <p>00000074854 - mA output</p> <p>00005009872 - Profibus</p> <p>Historical data ></p> <p>Modbus TCP ></p> <p>v20.12 3 Sensors 1 Outputs 1 Profibus</p>
2	Selectați Telegram (Telegramă) pentru a seta telegrama Modbus TCP.	 <p>Modbus TCP</p> <p>Modbus TCP On</p> <p>IP address 192.168.178.47</p> <p>TCP Port 502</p> <p>Telegram ></p> <p>Modbus address 1</p> <p>Virtual modbus slave Off</p> <p>Data order Normal ></p> <p>Simulation ></p> <p>Status ></p>

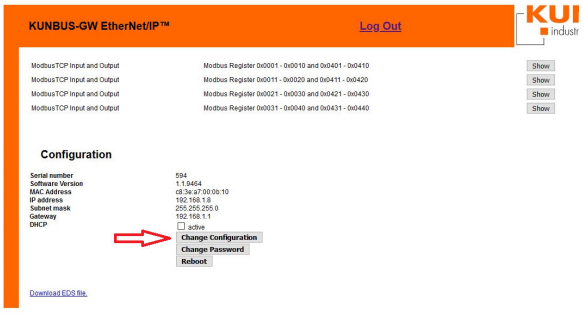

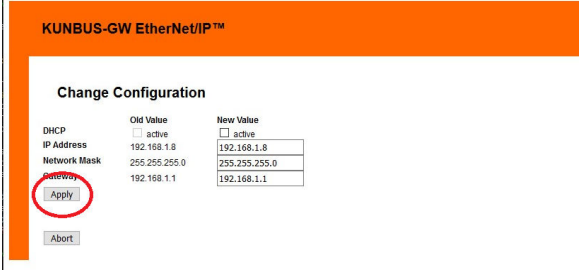
Pasul	Descriere	Imagine
3	<p>Telegrama afișată este un exemplu pentru senzorul LDO sc.</p> <p>Setați Heartbeat (Bătăi cardiace) la Integer (Întreg). Heartbeat (Bătăi cardiace) este un contor care afișează actualizarea valorii în incremente de o secundă.</p> <p><i>Notă: Conținutul telegramei TCP Modbus este același cu cel al telegramei Profibus.</i></p>	 <p>The image contains two screenshots of a configuration interface. The top screenshot is titled 'Telegram' and shows a list of sensors under '1 devices'. One sensor is listed as 'LDO 2009 LDO sc'. There are 'CANCEL' and 'SAVE' buttons at the bottom. The bottom screenshot is titled 'LDO 2009' and shows configuration options for two tags: '0 Dissolved oxygen [mg/L]' set to 'float' and '1 Heartbeat' set to 'integer'. There are 'DELETE SENSOR', '+ ADD NEW TAG', 'CANCEL', and 'OK' buttons at the bottom.</p>

Pasul	Descriere	Imagine
4	<p>Meniul Modbus TCP afișează adresa IP a controlerului. 192.168.178.47 este adresa IP setată în meniul Controler Service (Service controler).</p> <p>Setați Modbus TCP la On (Pornit), apoi apăsați Status (Stare).</p>	 <p>Modbus TCP</p> <p>Modbus TCP On</p> <p>IP address 192.168.178.47</p> <p>TCP Port 502</p> <p>Telegram ></p> <p>Modbus address 1</p> <p>Virtual modbus slave Off</p> <p>Data order Normal ></p> <p>Simulation ></p> <p>Status ></p>
5	<p>Meniul Status (Stare) afișează statisticile Modbus TCP. 192.168.178.50 este adresa IP a modulului RevPi. RevPi este prevăzut cu un master Modbus TCP 7.</p>	 <p>Status</p> <p>Client 192.168.178.50:46338</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p> <p>Client 192.168.178.50:46340</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p> <p>Client 192.168.178.50:46342</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p>

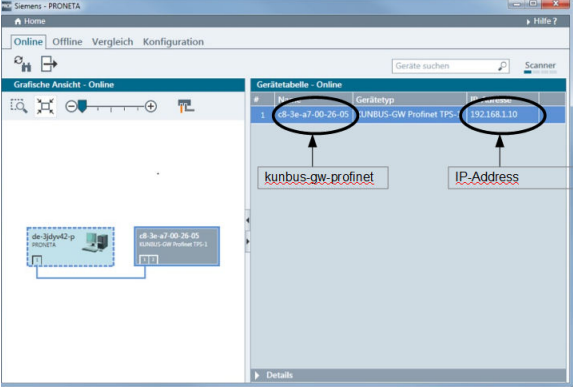
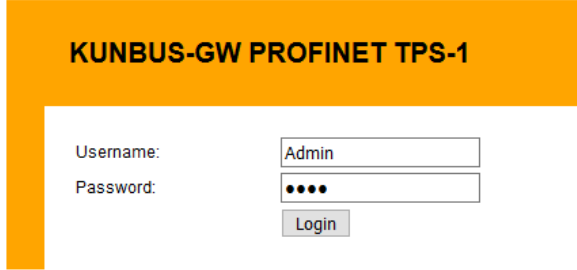
Secțiunea 7 Configurarea Ethernet/IP Gateway

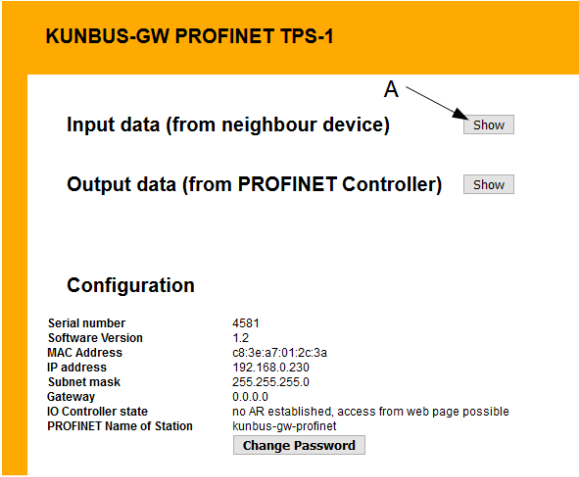
Pasul	Descriere	Imagine
1	<ul style="list-style-type: none"> • Conectați Ethernet/IP Gateway la PC cu ajutorul cablului adaptor LAN-la-USB. • Consultați Introducere de la pagina 317. Utilizați legătura slave-ului GATEWAY Ethernet/IP. Urmăți instrucțiunile din manualul de utilizare al producătorului, <i>Componente Gateway pentru EtherNet/IP</i>. • Utilizați comutatorul (A) pentru adresă cu 8 pini pentru a seta identificatorul gazdei în formatul binar al Gateway. <ul style="list-style-type: none"> • Exemplu: setați gazda la 8: 00010000 • Deschideți site-ul web http://192.168.1.X (X=suma tuturor comutatoarelor setate la ON (Pornit)). 	 <p>The diagram shows the front panel of the KUNBUS-GW EtherNet/IP gateway. At the top, there are several indicator lights labeled 'Power', 'MS', 'NS', 'LIA 1', and 'LIA 2'. Below these is a power switch labeled 'OFF ON'. The central feature is an 8-pin DIP switch labeled 'A' with a line pointing to it from the left. Below the switch is a 'Barcode' area with 'BIN' and 'V8' labels. At the bottom, there is a '24V 0V' terminal block.</p>
2	<p>Deschideți navigatorul și introduceți adresa IP 192.168.1.X. Introduceți datele de conectare pentru prima conectare:</p> <p>Utilizator: Admin Parola: 1701 Apăsați Login (Conectare).</p>	 <p>The screenshot shows the login interface for the KUNBUS-GW EtherNet/IP gateway. The title is 'KUNBUS-GW EtherNet/IP™'. There are two input fields: 'Username:' with 'Admin' entered, and 'Password:' which is empty. A 'Login' button is located below the password field. At the bottom, there is a blue link that says 'Download EDS file.'</p>

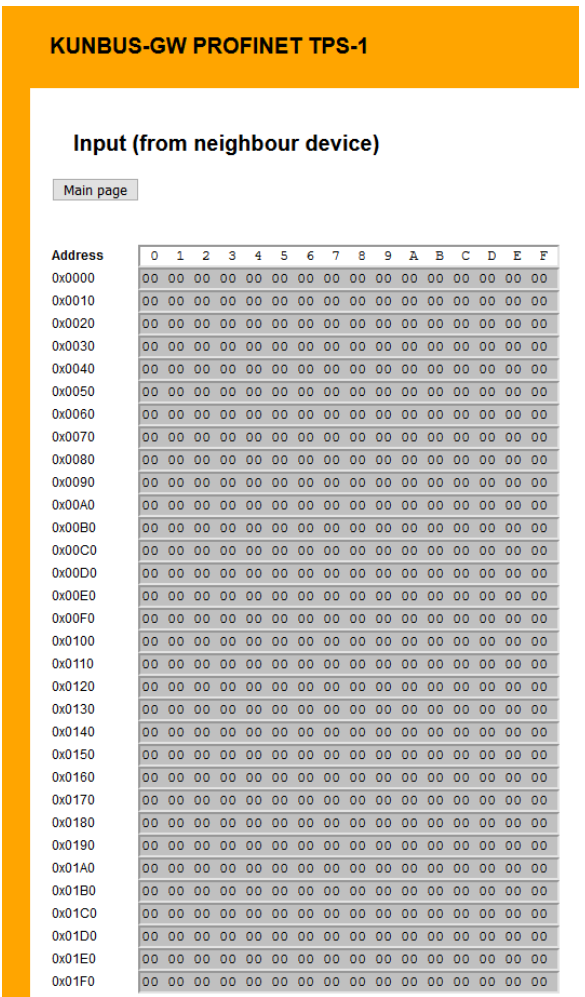
Pasul	Descriere	Imagine																																																																																					
3	<p>Controlerul și Ethernet/IP Gateway transferă domeniul de date 0000 - 01BF, care este un interval de 448 biți sau 112 float sau 224 întreg sau o combinație dintre acestea, în funcție de tipul de telegramă al Modbus TCP de pe controler.</p> <p>Notă: Se afișează numai primul interval de date până la 32 întreg. Vizualizați toate datele din PLC (224 întreg).</p> <p>Apăsați Show (Afișare).</p>																																																																																						
4	<p>Se afișează domeniul de date selectate.</p>	<table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1</td><td>0x0001</td><td>0</td><td>Output 1</td><td>0x0401</td></tr> <tr><td>Input 2</td><td>0x0002</td><td>0</td><td>Output 2</td><td>0x0402</td></tr> <tr><td>Input 3</td><td>0x0003</td><td>0</td><td>Output 3</td><td>0x0403</td></tr> <tr><td>Input 4</td><td>0x0004</td><td>0</td><td>Output 4</td><td>0x0404</td></tr> <tr><td>Input 5</td><td>0x0005</td><td>0</td><td>Output 5</td><td>0x0405</td></tr> <tr><td>Input 6</td><td>0x0006</td><td>0</td><td>Output 6</td><td>0x0406</td></tr> <tr><td>Input 7</td><td>0x0007</td><td>0</td><td>Output 7</td><td>0x0407</td></tr> <tr><td>Input 8</td><td>0x0008</td><td>0</td><td>Output 8</td><td>0x0408</td></tr> <tr><td>Input 9</td><td>0x0009</td><td>0</td><td>Output 9</td><td>0x0409</td></tr> <tr><td>Input 10</td><td>0x000a</td><td>0</td><td>Output 10</td><td>0x040A</td></tr> <tr><td>Input 11</td><td>0x000b</td><td>0</td><td>Output 11</td><td>0x040B</td></tr> <tr><td>Input 12</td><td>0x000c</td><td>0</td><td>Output 12</td><td>0x040C</td></tr> <tr><td>Input 13</td><td>0x000d</td><td>0</td><td>Output 13</td><td>0x040D</td></tr> <tr><td>Input 14</td><td>0x000e</td><td>0</td><td>Output 14</td><td>0x040E</td></tr> <tr><td>Input 15</td><td>0x000f</td><td>0</td><td>Output 15</td><td>0x040F</td></tr> <tr><td>Input 16</td><td>0x0010</td><td>0</td><td>Output 16</td><td>0x0410</td></tr> </tbody> </table>	Address	Value				Input 1	0x0001	0	Output 1	0x0401	Input 2	0x0002	0	Output 2	0x0402	Input 3	0x0003	0	Output 3	0x0403	Input 4	0x0004	0	Output 4	0x0404	Input 5	0x0005	0	Output 5	0x0405	Input 6	0x0006	0	Output 6	0x0406	Input 7	0x0007	0	Output 7	0x0407	Input 8	0x0008	0	Output 8	0x0408	Input 9	0x0009	0	Output 9	0x0409	Input 10	0x000a	0	Output 10	0x040A	Input 11	0x000b	0	Output 11	0x040B	Input 12	0x000c	0	Output 12	0x040C	Input 13	0x000d	0	Output 13	0x040D	Input 14	0x000e	0	Output 14	0x040E	Input 15	0x000f	0	Output 15	0x040F	Input 16	0x0010	0	Output 16	0x0410
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Pasul	Descriere	Imagine															
5	<p>Apăsați Change Configuration (Modificare configurație) pentru a seta adresa IP.</p>	 <p>KUNBUS-GW EtherNet/IP™ Log Out </p> <p>Modbus TCP Input and Output Modbus Register 0x0001 - 0x0010 and 0x0401 - 0x0410 Show</p> <p>Modbus TCP Input and Output Modbus Register 0x0011 - 0x0020 and 0x0411 - 0x0420 Show</p> <p>Modbus TCP Input and Output Modbus Register 0x0021 - 0x0030 and 0x0421 - 0x0430 Show</p> <p>Modbus TCP Input and Output Modbus Register 0x0031 - 0x0040 and 0x0431 - 0x0440 Show</p> <p>Configuration</p> <p>Serial number 994</p> <p>Software Version 1.1.0454</p> <p>MAC Address c8:3e:27:0b:2b:10</p> <p>IP Address 192.168.1.8</p> <p>Subnet mask 255.255.255.0</p> <p>Gateway 192.168.1.1</p> <p>DHCP <input type="checkbox"/> active</p> <p>Change Configuration Change Password Reboot</p> <p>Download FDS file</p>															
6	<p>Modificați adresa IP conform adresei gateway. Apăsați Apply (Aplicare) pentru a confirma.</p> <p>Oprii toate comutatoarele de fază acționate de picior.</p> <p>Oprii alimentarea electrică a gateway-ului, apoi reporniți. Acum se utilizează adresa IP nouă.</p>	 <p>KUNBUS-GW EtherNet/IP™</p> <p>Change Configuration</p> <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td><input checked="" type="checkbox"/> active</td> <td><input type="checkbox"/> active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table> <p>Apply Abort</p>		Old Value	New Value	DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0	Gateway	192.168.1.1	192.168.1.1
	Old Value	New Value															
DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active															
IP Address	192.168.1.8	192.168.1.8															
Network Mask	255.255.255.0	255.255.255.0															
Gateway	192.168.1.1	192.168.1.1															

Secțiunea 8 Configurarea Profinet Gateway

Pasul	Descriere	Imagine
1	<ul style="list-style-type: none"> • Conectați Profinet Gateway la PC cu ajutorul adaptorului LAN-la-LAN. • Consultați Introducere de la pagina 317. Utilizați legătura slave-ului GATEWAY Profinet IRT. Urmăți instrucțiunile din manualul de utilizare al producătorului <i>Componente Gateway pentru PROFINET</i>. • Utilizați software-ul PRONETA pentru a seta numele la kunbus-gw-profinet. • Introduceți adresa IP utilizată. 	
2	<p>Deschideți navigatorul și introduceți adresa IP. Introduceți datele de conectare pentru prima conectare:</p> <p>Utilizator: Admin Parola: 1701 Apăsați Login (Conectare).</p>	

Pasul	Descriere	Imagine																
3	<p>Apăsați Show (Afișare) (A) pentru a afișa datele de intrare.</p>	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
Serial number	4581																	
Software Version	1.2																	
MAC Address	c8:3e:a7:01:2c:3a																	
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Subnet mask	255.255.255.0																	
Gateway	0.0.0.0																	
IO Controller state	no AR established, access from web page possible																	
PROFINET Name of Station	kunbus-gw-profinet																	

Pasul	Descriere	Imagine																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
4	<p>Afișează toate datele trimise de pe controler pe Profinet Gateway.</p> <p>Controlerul și Profinet Gateway transferă domeniul de date 0000 - 01BF, care este un interval de 448 biți sau 112 float sau 224 întreg sau o combinație dintre acestea, în funcție de tipul de telegramă al Modbus TCP de pe controler.</p>	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input (from neighbour device)</p> <p>Main page</p> <table border="1"> <thead> <tr> <th>Address</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0010</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0020</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0030</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0040</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0050</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0060</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0070</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0080</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0090</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x00A0</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x00B0</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x00C0</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Secțiunea 9 Depanare

9.1 Depanare RevPi

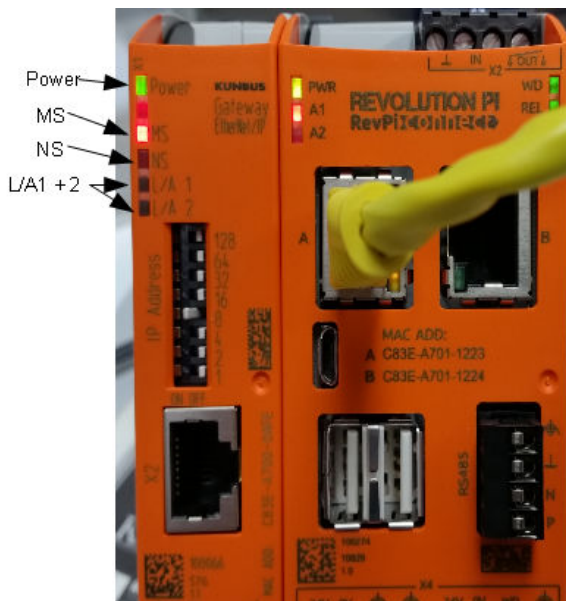
Figura 4 Modul de bază RevPi



Mesaj	Descriere	Soluție
LED-ul A2 luminează intermitent în roșu.	Comunicația s-a oprit.	<ul style="list-style-type: none">• Conectați cablul de rețea (cablu sau ruter).• Setează setarea adresei Modbus de pe Claros la 1.• Setează Modbus TCP din meniul Claros la On (Pornit).
LED-ul A3 luminează intermitent încet în roșu.	Configurația Ethernet/IP și Profinet Gateway este combinată.	Consultați Începerea configurației USB de la pagina 319, pasul 4 și selectați tipul de Gateway corect: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Depanare Ethernet/IP

Figura 5 Ethernet/IP Gateway

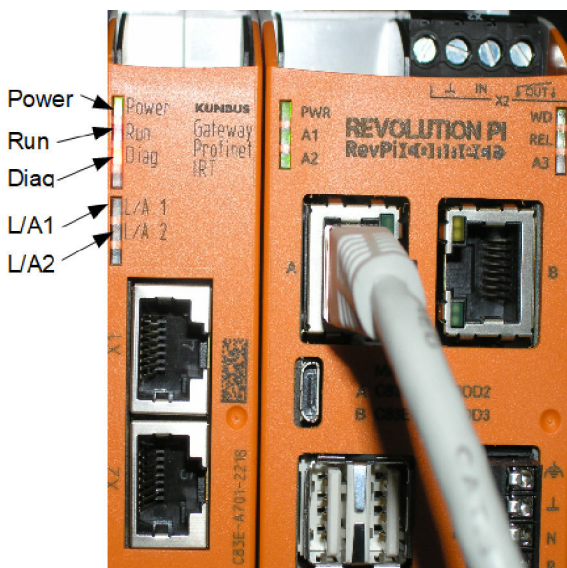


Mesaj	Descriere	Soluție
LED-ul indicator de alimentare este stins.	Ethernet/IP Gateway este setat la Off (Oprit).	Porniți alimentarea electrică.
LED-ul indicator de alimentare luminează intermitent în verde.	Procedura de pornire nu este finalizată.	Așteptați câteva minute.
LED-ul indicator de alimentare luminează intermitent în roșu.	Afișează un avertisment.	Examinați dacă toate dispozitivele sunt conectate.
LED-ul indicator de alimentare este roșu.	Afișează o eroare.	Ethernet/IP Gateway este defect. Înlocuiți Ethernet/IP Gateway.
LED-ul MS este stins.	Ethernet/IP Gateway este setat la Off (Oprit).	Porniți alimentarea electrică.
LED-ul MS luminează intermitent în verde.	Procedura de configurare nu este finalizată.	Așteptați câteva minute.
LED-ul MS luminează intermitent în roșu.	Afișează o eroare de configurare.	Consultați Configurarea Ethernet/IP Gateway de la pagina 329 pentru a examina configurația.
LED-ul MS este roșu.	Afișează o eroare.	Ethernet/IP Gateway este defect. Înlocuiți Ethernet/IP Gateway.
LED-ul MS luminează intermitent în roșu și verde.	Auto testul nu este finalizat.	Așteptați câteva minute.

Mesaj	Descriere	Soluție
LED-ul NS este stins.	Ethernet/IP Gateway este setat ca oprit sau nu are o adresă IP.	Porniți alimentarea electrică. Setati adresa IP.
LED-ul NS luminează intermitent în verde.	Adresa IP este setată, însă conexiunea CIP nu este stabilită.	Așteptați câteva minute.
LED-ul NS luminează intermitent în roșu.	Conexiunea CIP s-a oprit.	Examinați dacă există o expirare.
LED-ul NS este roșu.	Adresa IP selectată este utilizată de un alt dispozitiv.	Schimbați adresa IP cu o adresă IP unică.
LED-ul 1 sau 2 L/A este stins.	Nu există conexiune cu alte dispozitive.	Conectați la un dispozitiv.
LED-ul 1 sau 2 L/A luminează intermitent în verde.	Nu există un schimb de date.	Așteptați următorul schimb de date.

9.3 Depanare Profinet

Figura 6 Profinet Gateway



Mesaj	Descriere	Soluție
LED-ul indicator de alimentare este stins.	Profinet Gateway este oprit.	Porniți alimentarea electrică.
LED-ul indicator de alimentare luminează intermitent în verde.	Procedura de pornire nu este finalizată.	Așteptați câteva minute.
LED-ul indicator de alimentare luminează intermitent în roșu.	Afișează un avertisment.	Examinați dacă toate dispozitivele sunt instalate.

Mesaj	Descriere	Soluție
LED-ul indicator de alimentare este roșu.	Afișează o eroare.	Profinet Gateway este defect. Înlocuți Profinet Gateway.
LED-ul indicator de rulare este stins.	Nu există conexiune la o rețea.	Conectați la rețea.
LED-ul indicator de rulare luminează intermitent în verde.	Controlerul Profinet este conectat, însă nu există un schimb de date.	Așteptați următorul schimb de date.
LED-ul indicator de rulare luminează intermitent încet în verde.	Declanșat cu ajutorul instrumentului pentru identificarea componentei gateway.	Așteptați câteva minute.
LED-ul indicator de diagnosticare luminează intermitent în roșu.	Declanșat cu ajutorul instrumentului pentru identificarea componentei gateway.	Așteptați câteva minute.
LED-ul indicator de diagnosticare luminează intermitent rapid în roșu.	Nu există conexiune la controler. Nu există nume Profinet setat pe modul.	Consultați Configurarea Profinet Gateway de la pagina 332 pentru a seta numele.
LED-ul indicator de diagnosticare este roșu.	Un dispozitiv Gateway raportează date de diagnosticare.	Consultați raportul de diagnosticare.
LED-ul 1 sau 2 L/A este stins.	Nu există conexiune la o rețea.	Conectați la rețea.
LED-ul 1 sau 2 L/A luminează intermitent în verde.	Schimb de date.	Așteptați până când schimbul de date este finalizat.

Obsah

- | | |
|---|--|
| 1 Účel použitia na strane 339 | 6 Nastavenia telegramu Modbus TCP pre kontrolér pre SC1500 na strane 348 |
| 2 Úvod na strane 339 | 7 Konfigurácia rozhrania Ethernet/IP na strane 351 |
| 3 Spustenie konfigurácie USB na strane 341 | 8 Konfigurácia rozhrania Profinet na strane 354 |
| 4 Príklady inštalácie na strane 342 | 9 Riešenie problémov na strane 357 |
| 5 Nastavenia telegramu Modbus TCP pre kontrolér pre SC4200c na strane 345 | |

Odsek 1 Účel použitia

Tieto pokyny na nastavenie sú určené pre osoby, ktoré integrujú externé rozhranie Ethernet/IP alebo rozhranie Profinet ako hardvérové súčasti v sieti systému Claros.

Odsek 2 Úvod

Výrobca nie je zodpovedný za škody spôsobené nesprávnym alebo chybným používaním tohto zariadenia vrátane, okrem iného, priame, náhodné a následné škody, a odmieta zodpovednosť za takéto škody v plnom rozsahu povolenom príslušným zákonom. Používateľ je výhradne zodpovedný za určenie kritického rizika pri používaní a zavedenie náležitých opatrení na ochranu procesov počas prípadnej poruchy prístroja.

⚠ NEBEZPEČIE



Nebezpečenstvo smrteľného úrazu elektrickým prúdom. Pred vykonaním elektrických pripojení vždy odpojte zariadenie od napájania.

Potrebné príslušenstvo:

- Zariadenie USB formátované ako FAT32
- Počítač so systémom Windows¹ 10
- Modul:
 - Implementácia protokolu Ethernet/IP:
 - LXZ446.99.00001: GATEWAY IIoT RevPi – základný modul
 - LXZ446.99.00002: GATEWAY Ethernet/IP Slave
 - LXZ446.99.00003: Jumper pre PiBridge
 - Implementácia protokolu Profinet:
 - LXZ446.99.00001: GATEWAY IIoT RevPi – základný modul
 - LXZ446.99.00007: GATEWAY Profinet IRT Slave
 - LXZ446.99.00003: Jumper pre PiBridge

Pripojte všetky tri moduly RevPi, Slave a PiBridge k sieti napájania a sieti LAN.

Odkazy v nasledujúcej tabuľke obsahujú ďalšie informácie od výrobcu modulov.

Modul	Odkaz
GATEWAY Profinet IRT Slave	https://www.kunbus.com/profinet-irt-gateway-module.html
GATEWAY Ethernet/IP Slave	https://www.kunbus.com/ethernet-ip-gateway-module.html

¹ Microsoft® Windows® je registrovaná ochranná známka spoločnosti Microsoft Corporation v Spojených štátoch a iných krajinách.

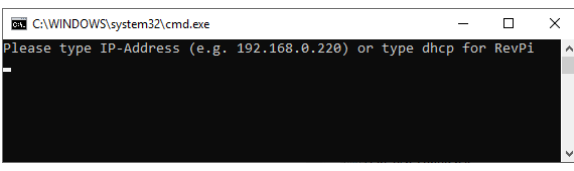
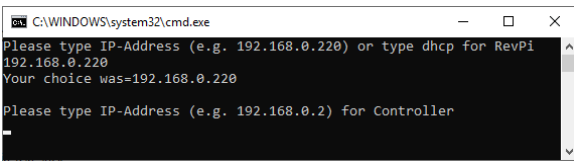
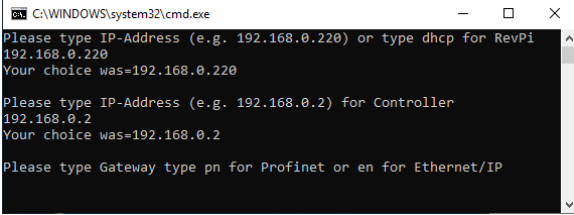
Modul	Odkaz
GATEWAY IIoT RevPi – základný modul	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
Pripojenie modulov RevPi	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Inštalácia modulov RevPi na lištu DIN	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Pripojenie zdroja napájania	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

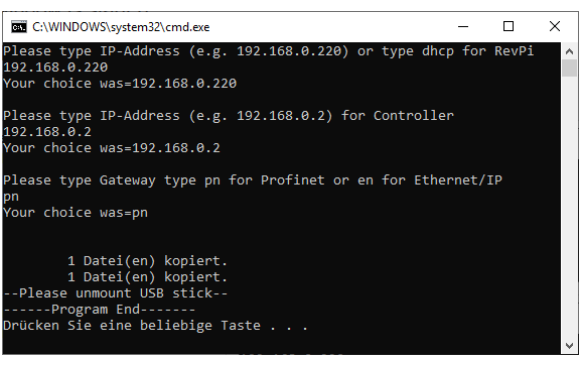


Príprava zariadenia USB

1. Vložte prázdne zariadenie USB do počítača.
2. Navštívte stránku <https://www.hach.com> a vyhľadajte heslá „usb ethernet/IP installation“ (inštalácia pripojenia usb ethernet/IP) alebo „usb profinet installation“ (inštalácia pripojenia usb profinet).
3. Stiahnite súbor USB_ETHIP_PRNET.zip.
4. Rozbaľte súbor do koreňového adresára zariadenia USB.

Odsek 3 Spustenie konfigurácie USB

Vložte pripravené zariadenie USB do počítača.

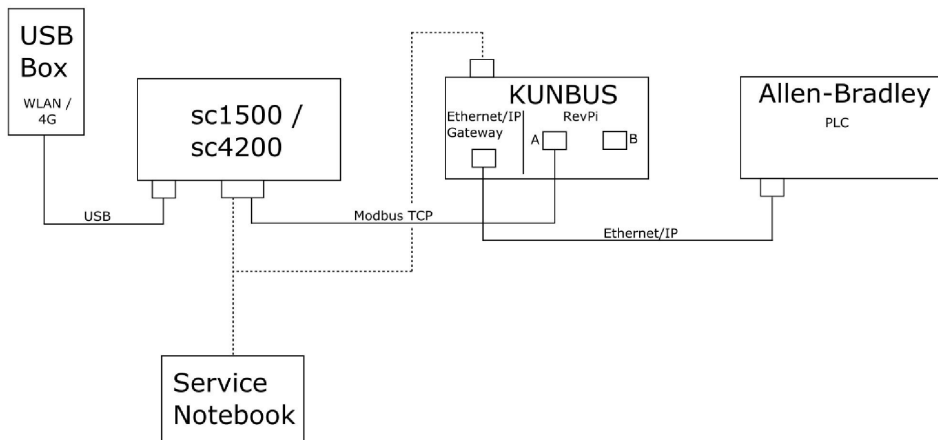
Krok	Popis	Obrázok
1	Spustíte položku start_usb_config.bat. Otvorí sa okno terminála. Postupujte podľa návodu krok za krokom.	
2	Zadajte IP adresu modulu RevPi.	
3	Zadajte IP adresu kontroléra SC. Skontrolujte, či je sieťová predpona rovnaká ako z modulu RevPi (napr. 192.168.0). Skontrolujte, či je identifikátor hostiteľa iný ako pre modul RevPi (napr. 220 RevPi, 2 Controller).	
4	Zadajte typ rozhrania: <ul style="list-style-type: none">• pn – Profinet• en – Ethernet/IP	

Krok	Popis	Obrázok
5	<p>Potvrďte nastavenia stlačením klávesu Enter. Vyberte zariadenie USB.</p>	
6	<p>Vložte zariadenie USB do ľavej zásuvky USB modulu RevPi.</p>	
7	<p>Opis LED diód:</p> <ul style="list-style-type: none"> • A1/A2 oranžová: RevPi – začína sa inštalácia. • A1 červená, A2 nesvieti: – vložte zariadenie USB. • A1 zelená, A2 nesvieti: zariadenie USB vložené úspešne. • A1 nesvieti, A2 zelená: RevPi sťahuje/nahráva údaje zo zariadenia USB. • A3 červená: RevPi sa rešartuje. <p>Keď je A3 červená, vyberte zariadenie USB.</p>	
8	<p>Nastavenia systému RevPi sú ukončené.</p>	

Odsek 4 Príklady inštalácie

Obrázok 1 Znázorňuje inštaláciu s dvoma rôznymi pripojeniami LAN.

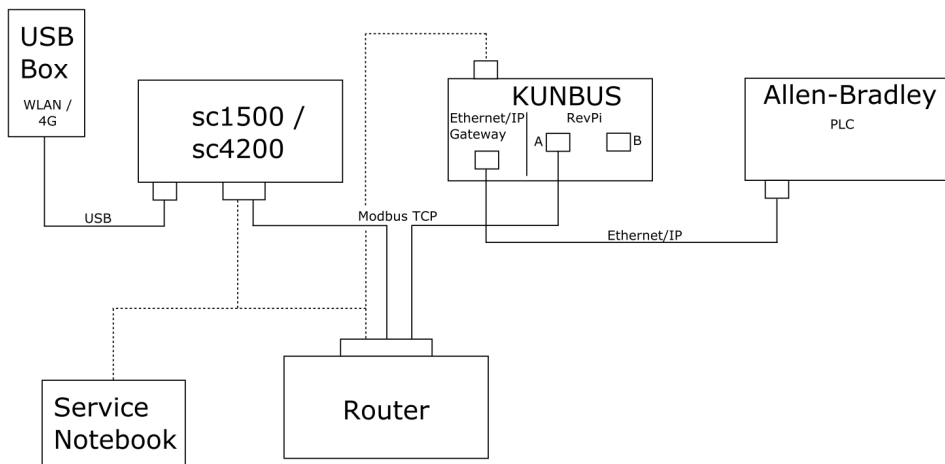
Obrázok 1 Príklad 1



- Protokoly Modbus TCP a Ethernet/IP používajú dve rôzne pripojenia LAN.
- Všetky zariadenia majú statickú IP adresu.
- Kontrolér má prístup na internet s pripojením WiFi alebo mobilným pripojením.
- Na nastavenie IP adresy kontroléra a rozhrania Ethernet/IP je potrebný notebook.

Obrázok 2 zobrazuje inštaláciu so smerovačom pre pripojenie zariadenia Modbus TCP.

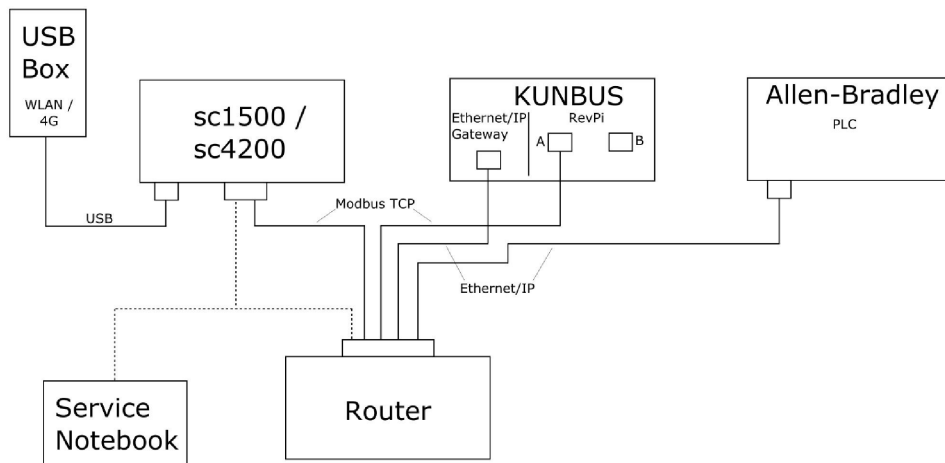
Obrázok 2 Príklad 2



- Zariadenie Modbus TCP je pripojené k smerovaču.
- Všetky zariadenia majú statickú IP adresu alebo smerovač nastaví IP adresu prostredníctvom protokolu DHCP.
Poznámka: Ak používate protokol DHCP, zabezpečte, aby smerovač vždy používal rovnakú IP adresu pre rovnaké zariadenia (MAC).
- Kontrolér má prístup na internet s pripojením WiFi alebo mobilným pripojením.
- Na nastavenie IP adresy kontroléra, rozhrania Ethernet/IP a smerovača je potrebný notebook.

Obrázok 3 zobrazuje inštaláciu so smerovačom alebo prepínačom pre všetky zariadenia.

Obrázok 3 Príklad 3



- Všetky zariadenia sú pripojené smerovačom alebo prepínačom.

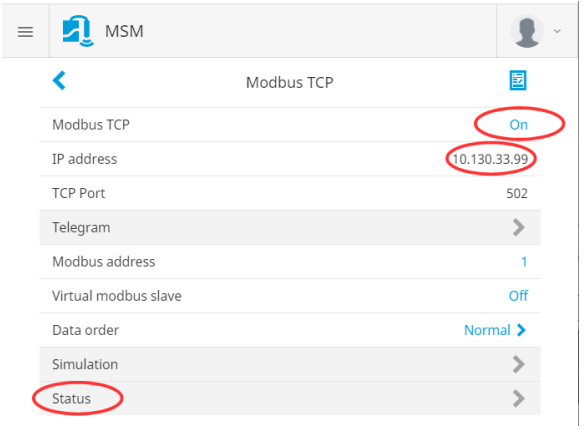

- Všetky zariadenia majú statickú IP adresu alebo smerovač či prepínač nastaví IP adresu prostredníctvom protokolu DHCP.
***Poznámka:** Ak používate protokol DHCP, zabezpečte, aby smerovač vždy používal rovnakú IP adresu pre rovnaké zariadenia (MAC).*
- Kontrolér má prístup na internet s pripojením WiFi alebo mobilným pripojením.
- Na nastavenie IP adresy kontroléra a smerovača je potrebný notebook.

Odsek 5 Nastavenia telegramu Modbus TCP pre kontrolér pre SC4200c

Spustíte aplikáciu Claros a postupujte podľa návodu krok za krokom.

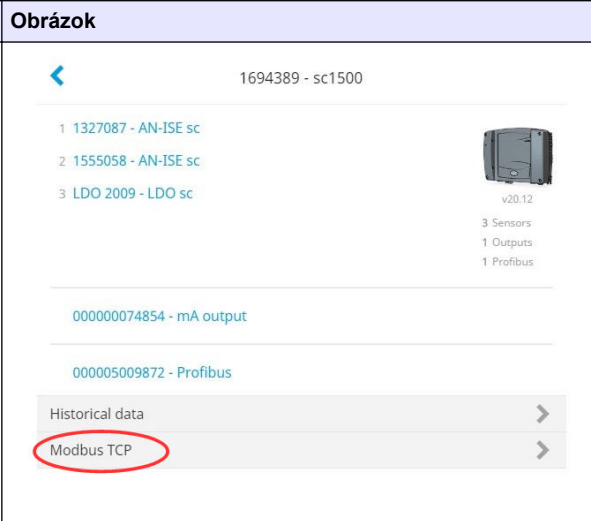
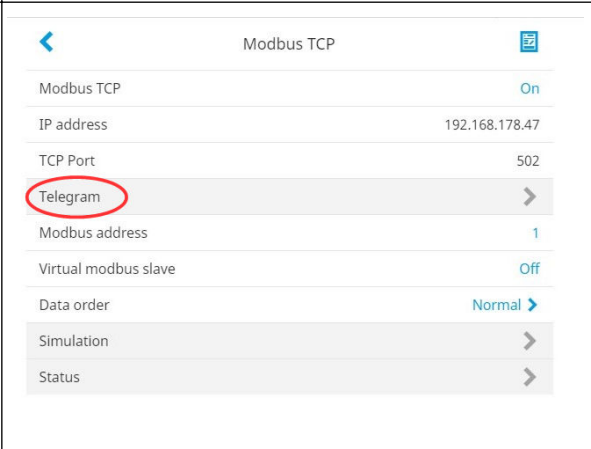
Krok	Popis	Obrázok
1	Vyberte ponuku kontroléra a stlačte Modbus TCP .	
2	Vyberte Telegram na nastavenie telegramu pre Modbus TCP.	

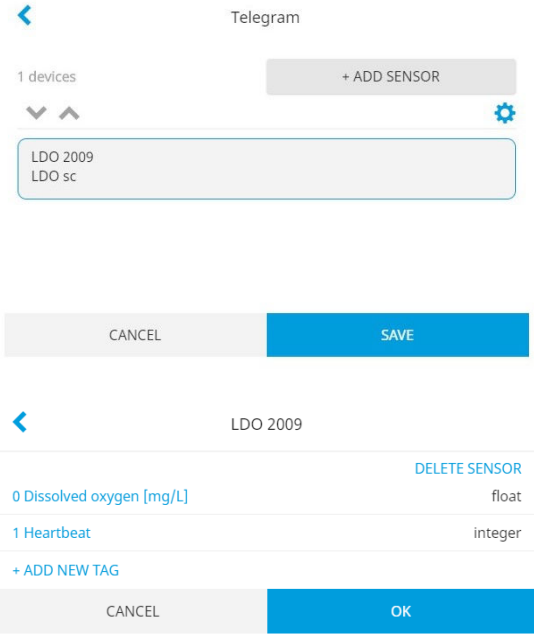
Krok	Popis	Obrázok
3	<p>Zobrazený telegram je príklad pre sondu LDO sc. Nastavte hodnotu Heartbeat (Signál funkcie) na celé číslo. Signál funkcie je počítadlo, ktoré znázorňuje aktualizáciu hodnoty v prírastkoch o jednu sekundu.</p> <p><i>Poznámka: Obsah telegramu pre Modbus TCP je rovnaký ako v prípade telegramu pre Profibus.</i></p>	

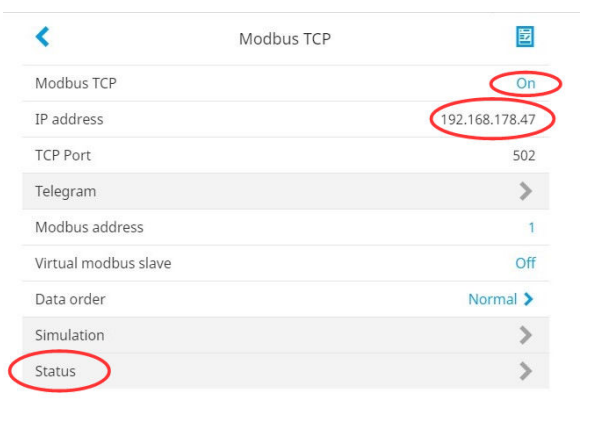
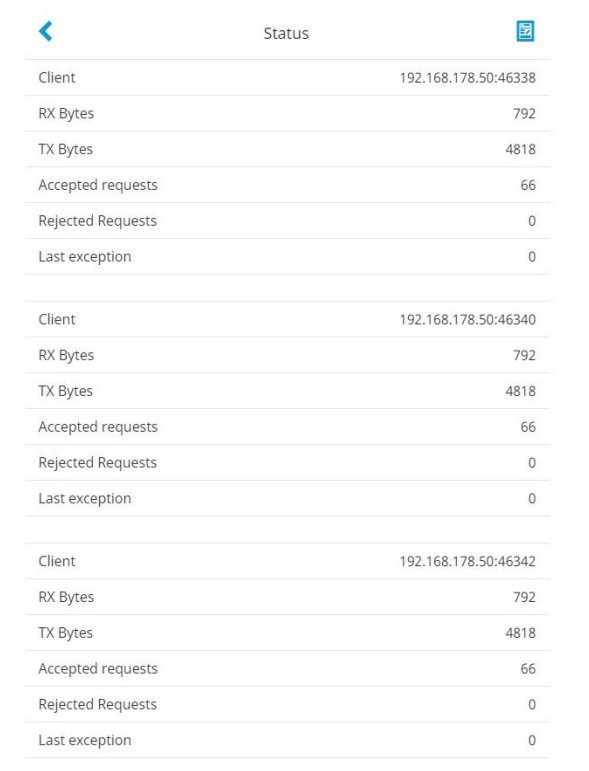
Krok	Popis	Obrázok																								
4	<p>Ponuka Modbus TCP zobrazuje IP adresu kontroléra.</p> <p>10.130.33.99 je IP adresa nastavená v ponuke služieb kontroléra.</p> <p>Nastavte hodnotu Modbus TCP na On (Zap.) a stlačte Status (Stav).</p>	 <p>The screenshot shows the 'Modbus TCP' configuration interface. The 'Modbus TCP' toggle is set to 'On'. The 'IP address' field contains '10.130.33.99'. The 'TCP Port' is set to '502'. The 'Telegram' section is expanded, showing 'Modbus address' as '1', 'Virtual modbus slave' as 'Off', and 'Data order' as 'Normal'. The 'Simulation' section is also expanded. The 'Status' button at the bottom is highlighted with a red circle.</p>																								
5	<p>Ponuka Status (Stav) zobrazuje štatistické údaje protokolu Modbus TCP.</p> <p>10.130.33.50 je IP adresa modulu RevPi. Modul RevPi má zariadenie master 5 Modbus TCP.</p>	 <p>The screenshot shows the 'Status' screen with statistics for three clients. Each client's data is as follows:</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>10.130.33.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	10.130.33.50:46338	792	4818	66	0	0	10.130.33.50:46340	792	4818	66	0	0	10.130.33.50:46342	792	4818	66	0	0
Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception																					
10.130.33.50:46338	792	4818	66	0	0																					
10.130.33.50:46340	792	4818	66	0	0																					
10.130.33.50:46342	792	4818	66	0	0																					

Odsek 6 Nastavenia telegramu Modbus TCP pre kontrolér pre SC1500

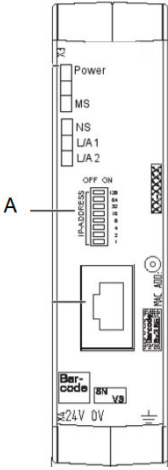
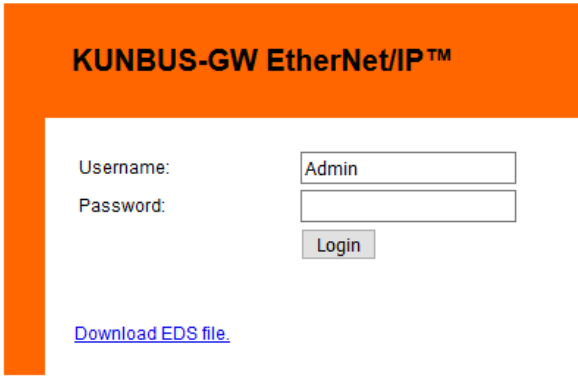
Spustíte aplikáciu Claros a postupujete podľa návodu krok za krokom.

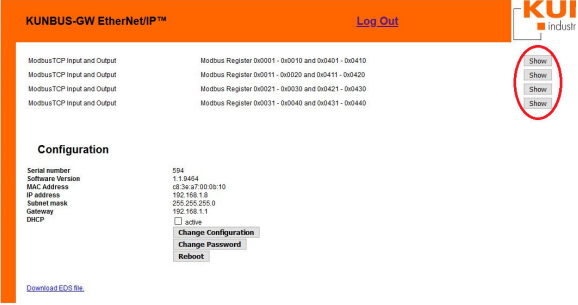
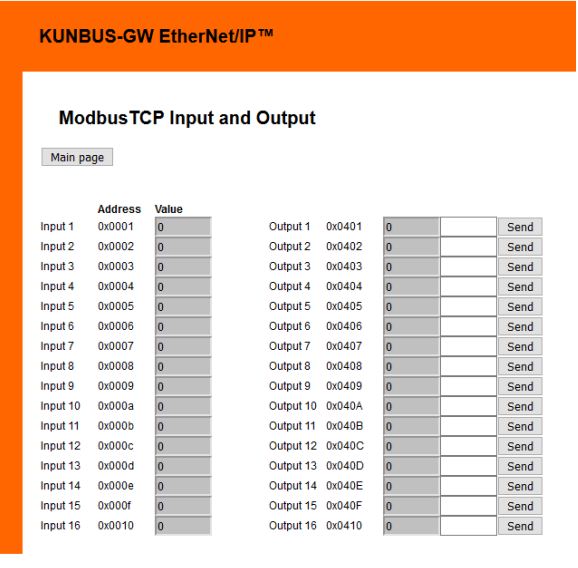
Krok	Popis	Obrázok
1	Vyberte ponuku kontroléra a stlačte Modbus TCP .	
2	Vyberte Telegram na nastavenie telegramu pre Modbus TCP.	

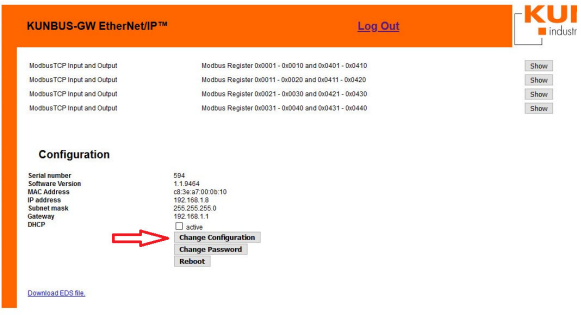
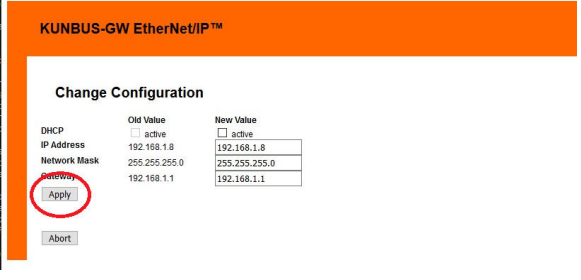
Krok	Popis	Obrázok
3	<p>Zobrazený telegram je príklad pre sondu LDO sc. Nastavte hodnotu Heartbeat (Signál funkcie) na celé číslo. Signál funkcie je počítadlo, ktoré znázorňuje aktualizáciu hodnoty v prírastkoch o jednu sekundu.</p> <p>Poznámka: Obsah telegramu pre Modbus TCP je rovnaký ako v prípade telegramu pre Profibus.</p>	 <p>The image contains two screenshots of a configuration interface. The top screenshot is titled 'Telegram' and shows a list of devices with one entry: 'LDO 2009 LDO sc'. There are 'CANCEL' and 'SAVE' buttons at the bottom. The bottom screenshot is titled 'LDO 2009' and shows configuration details for the sensor: '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer). It also includes a 'DELETE SENSOR' link, a '+ ADD NEW TAG' button, and 'CANCEL' and 'OK' buttons at the bottom.</p>

Krok	Popis	Obrázok
4	<p>Ponuka Modbus TCP zobrazuje IP adresu kontroléra.</p> <p>192.168.178.47 je IP adresa nastavená v ponuke služieb kontroléra.</p> <p>Nastavte hodnotu Modbus TCP na On (Zap.) a stlačte Status (Stav).</p>	 <p>Modbus TCP</p> <p>Modbus TCP On</p> <p>IP address 192.168.178.47</p> <p>TCP Port 502</p> <p>Telegram ></p> <p>Modbus address 1</p> <p>Virtual modbus slave Off</p> <p>Data order Normal ></p> <p>Simulation ></p> <p>Status ></p>
5	<p>Ponuka Status (Stav) zobrazuje štatistické údaje protokolu Modbus TCP.</p> <p>192.168.178.50 je IP adresa modulu RevPi. Modul RevPi má zariadenie master 7 Modbus TCP.</p>	 <p>Status</p> <p>Client 192.168.178.50:46338</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p> <p>Client 192.168.178.50:46340</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p> <p>Client 192.168.178.50:46342</p> <p>RX Bytes 792</p> <p>TX Bytes 4818</p> <p>Accepted requests 66</p> <p>Rejected Requests 0</p> <p>Last exception 0</p>

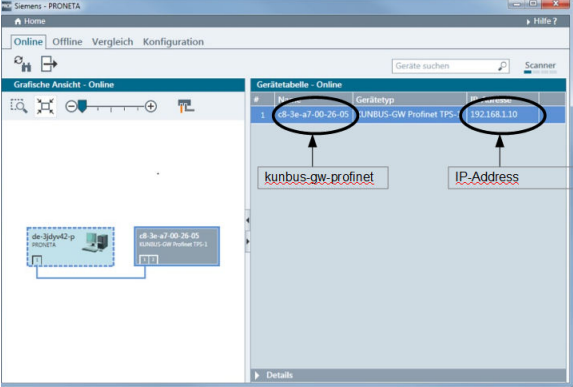
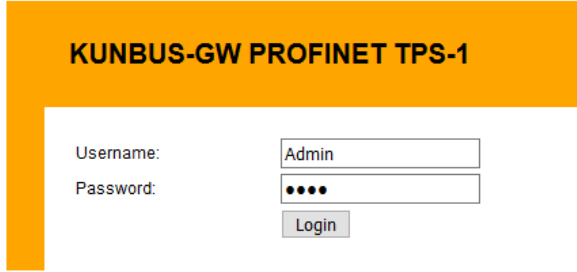
Odsek 7 Konfigurácia rozhrania Ethernet/IP

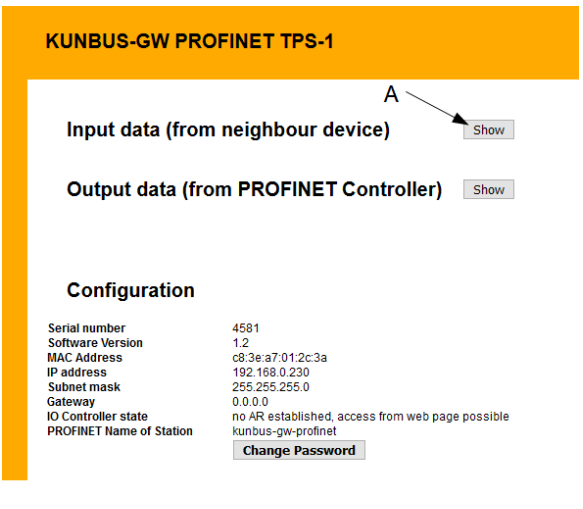
Krok	Popis	Obrázok
1	<ul style="list-style-type: none"> • Pripojte rozhranie Ethernet/IP k počítaču s káblom adaptéra na pripojenie typu LAN-to-USB. • Pozri časť Úvod na strane 339. Použite odkaz v časti GATEWAY Ethernet/IP Slave. Postupujte podľa pokynov v návode na obsluhu od výrobcu <i>Gateway component for EtherNet/IP</i> (Súčasť rozhrania pre Ethernet/IP). • Pomocou 8-kolíkového prepínača adries (A) nastavte identifikátor hostiteľa na binárny formát rozhrania. <ul style="list-style-type: none"> • Príklad: nastavenie hostiteľa na 8:00010000 • Otvorte webovú stránku http://192.168.1.X (X = súčet všetkých prepnutí nastavených na hodnotu ON (Zap.)). 	 <p>The diagram shows a vertical module with various ports and switches. A label 'A' points to an 8-pin DIP switch. Other labels include 'Power', 'MS', 'NIS', 'LIA 1', 'LIA 2', 'OFF ON', 'Barcode', 'BIN', 'Vg', and '24V 0V'.</p>
2	<p>Otvorte prehliadač a zadajte IP adresu 192.168.1.X. Prihlasovacie údaje pri prvom prihlásení:</p> <p>Používateľ: Admin Heslo: 1701</p> <p>Stlačte položku Login (Prihlásenie).</p>	 <p>The screenshot shows a web interface with an orange header containing the text 'KUNBUS-GW EtherNet/IP™'. Below the header is a login form with two input fields: 'Username:' with the value 'Admin' and 'Password:'. A 'Login' button is positioned below the password field. At the bottom of the page, there is a link: Download EDS file.</p>

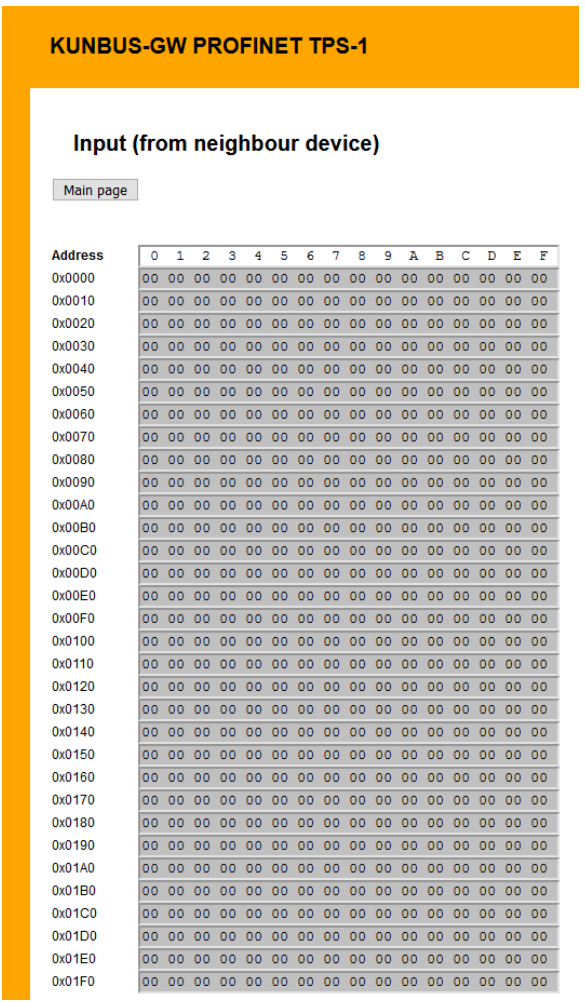
Krok	Popis	Obrázok																																																																																																																					
3	<p>Kontrolér a rozhranie Ethernet/IP prenáša oblasť údajov 0000 – 01BF, čo je rozsah 448 bytov alebo 112 floatov alebo 224 integerov alebo ich zmes, na základe typu telegramu protokolu Modbus TCP v kontroléri.</p> <p>Poznámka: Zobrazuje sa iba prvý rozsah údajov po 32 integerov. Zobrazenie všetkých údajov v PLC (224 integerov).</p> <p>Stlačte Show (Zobraziť).</p>																																																																																																																						
4	<p>Zobrazí sa vybraná oblasť údajov.</p>	 <table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1</td><td>0x0001</td><td>0</td><td>Output 1</td><td>0x0401</td><td>0</td><td>Send</td></tr> <tr><td>Input 2</td><td>0x0002</td><td>0</td><td>Output 2</td><td>0x0402</td><td>0</td><td>Send</td></tr> <tr><td>Input 3</td><td>0x0003</td><td>0</td><td>Output 3</td><td>0x0403</td><td>0</td><td>Send</td></tr> <tr><td>Input 4</td><td>0x0004</td><td>0</td><td>Output 4</td><td>0x0404</td><td>0</td><td>Send</td></tr> <tr><td>Input 5</td><td>0x0005</td><td>0</td><td>Output 5</td><td>0x0405</td><td>0</td><td>Send</td></tr> <tr><td>Input 6</td><td>0x0006</td><td>0</td><td>Output 6</td><td>0x0406</td><td>0</td><td>Send</td></tr> <tr><td>Input 7</td><td>0x0007</td><td>0</td><td>Output 7</td><td>0x0407</td><td>0</td><td>Send</td></tr> <tr><td>Input 8</td><td>0x0008</td><td>0</td><td>Output 8</td><td>0x0408</td><td>0</td><td>Send</td></tr> <tr><td>Input 9</td><td>0x0009</td><td>0</td><td>Output 9</td><td>0x0409</td><td>0</td><td>Send</td></tr> <tr><td>Input 10</td><td>0x000A</td><td>0</td><td>Output 10</td><td>0x040A</td><td>0</td><td>Send</td></tr> <tr><td>Input 11</td><td>0x000b</td><td>0</td><td>Output 11</td><td>0x040B</td><td>0</td><td>Send</td></tr> <tr><td>Input 12</td><td>0x000c</td><td>0</td><td>Output 12</td><td>0x040C</td><td>0</td><td>Send</td></tr> <tr><td>Input 13</td><td>0x000d</td><td>0</td><td>Output 13</td><td>0x040D</td><td>0</td><td>Send</td></tr> <tr><td>Input 14</td><td>0x000e</td><td>0</td><td>Output 14</td><td>0x040E</td><td>0</td><td>Send</td></tr> <tr><td>Input 15</td><td>0x000f</td><td>0</td><td>Output 15</td><td>0x040F</td><td>0</td><td>Send</td></tr> <tr><td>Input 16</td><td>0x0010</td><td>0</td><td>Output 16</td><td>0x0410</td><td>0</td><td>Send</td></tr> </tbody> </table>	Address	Value				Input 1	0x0001	0	Output 1	0x0401	0	Send	Input 2	0x0002	0	Output 2	0x0402	0	Send	Input 3	0x0003	0	Output 3	0x0403	0	Send	Input 4	0x0004	0	Output 4	0x0404	0	Send	Input 5	0x0005	0	Output 5	0x0405	0	Send	Input 6	0x0006	0	Output 6	0x0406	0	Send	Input 7	0x0007	0	Output 7	0x0407	0	Send	Input 8	0x0008	0	Output 8	0x0408	0	Send	Input 9	0x0009	0	Output 9	0x0409	0	Send	Input 10	0x000A	0	Output 10	0x040A	0	Send	Input 11	0x000b	0	Output 11	0x040B	0	Send	Input 12	0x000c	0	Output 12	0x040C	0	Send	Input 13	0x000d	0	Output 13	0x040D	0	Send	Input 14	0x000e	0	Output 14	0x040E	0	Send	Input 15	0x000f	0	Output 15	0x040F	0	Send	Input 16	0x0010	0	Output 16	0x0410	0	Send
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5	<p>Stlačte tlačidlo Change Configuration (Zmeniť konfiguráciu) na nastavení IP adresy.</p>	 <p>The screenshot shows the configuration page for KUNBUS-GW EtherNet/IP™. At the top right is a 'Log Out' link. Below are sections for Modbus registers and a 'Configuration' section. The 'Configuration' section lists various parameters: Serial number (994), Software Version (1.1.0454), MAC Address (c8:3e:27:0b:2b:10), IP Address (192.168.1.8), Subnet mask (255.255.255.0), Gateway (192.168.1.1), and DHCP (active). A red arrow points to the 'Change Configuration' button, which is also highlighted with a grey background. Other buttons like 'Change Password' and 'Reboot' are also visible.</p>
6	<p>Zmeňte IP adresu podľa adresy rozhrania. Na potvrdenie stlačte možnosť Apply (Použiť). Vypnú sa tým všetky prepínače DIP. Vypnite rozhranie a potom reštartujte. Teraz sa bude používať nová IP adresa.</p>	 <p>The screenshot shows the 'Change Configuration' dialog box. It has a title bar 'KUNBUS-GW EtherNet/IP™' and a 'Change Configuration' title. Below is a table with columns 'Old Value' and 'New Value'. The 'DHCP' row shows 'active' in both columns. The 'IP Address' row shows '192.168.1.8' in both. The 'Network Mask' row shows '255.255.255.0' in both. The 'Gateway' row shows '192.168.1.1' in both. At the bottom, the 'Apply' button is circled in red, and there is also an 'Abort' button.</p>

Odsek 8 Konfigurácia rozhrania Profinet

Krok	Popis	Obrázok
1	<ul style="list-style-type: none"> • Pripojte rozhranie Profinet k počítaču s adaptérom na pripojenie typu LAN-to-LAN. • Pozri časť Úvod na strane 339. Použite odkaz v časti GATEWAY Profinet IRT Slave. Postupujte podľa pokynov v návode na obsluhu od výrobcu <i>Gateway Component for PROFINET</i> (Súčasť rozhrania pre Profinet). • Pomocou softvéru PRONETA nastavte názov na kunbus-gw-profinet. • Zadajte používanú IP adresu. 	
2	<p>Otvorte prehliadač a zadajte IP adresu.</p> <p>Prihlasovacie údaje pri prvom prihlásení:</p> <p>Používateľ: Admin</p> <p>Heslo: 1701</p> <p>Stlačte položku Login (Prihlásenie).</p>	

Krok	Popis	Obrázok																
3	Stlačte tlačidlo Show (Zobrazit) (A), čím zobrazíte zadané údaje.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
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4	<p>Zobrazuje všetky údaje odoslané z kontroléra do rozhrania Profinet.</p> <p>Kontrolér a rozhranie Profinet prenáša oblasť údajov 0000 – 01BF, čo je rozsah 448 bytov alebo 112 floatov alebo 224 integerov alebo ich zmes, na základe typu telegramu protokolu Modbus TCP v kontroléri.</p>	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input (from neighbour device)</p> <p>Main page</p> <table border="1"> <thead> <tr> <th>Address</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Odsek 9 Riešenie problémov

9.1 Riešenie problémov so systémom RevPi

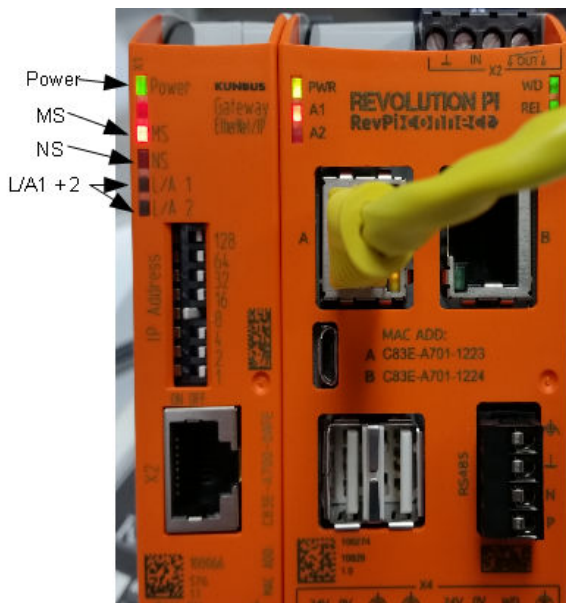
Obrázok 4 Základný modul RevPi



Hlásenie	Popis	Riešenie
Dióda LED A2 bliká načerveno.	Komunikácia sa zastavila.	<ul style="list-style-type: none">• Pripojte sieťový kábel (kábel alebo smerovač).• Nastavte nastavenie adresy Modbus v systéme Claros na 1.• Nastavte možnosť Modbus TCP v ponuke systému Claros na zapnutú.
Dióda LED A3 bliká pomaly načerveno.	Konfigurácia Ethernet/IP a rozhrania Profinet je spletená.	Riadte sa krokom 4 v časti Spustenie konfigurácie USB na strane 341 a vyberte správny typ rozhrania: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Riešenie problémov s pripojením Ethernet/IP

Obrázok 5 Rozhranie Ethernet/IP

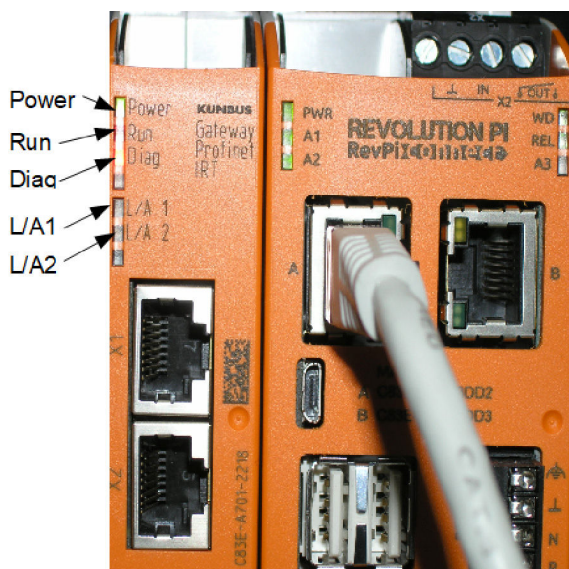


Hlásenie	Popis	Riešenie
LED dióda napájania nesvieti.	Rozhranie Ethernet/IP je nastavené na vypnuté.	Zapnite napájanie.
LED dióda napájania bliká nazeleno.	Proces spúšťania nie je ukončený.	Počkajte niekoľko minút.
LED dióda napájania bliká načerveno.	Zobrazuje sa tým výstraha.	Skontrolujte, či sú pripojené všetky zariadenia.
LED dióda napájania má červenú farbu.	Zobrazuje sa tým chyba.	Rozhranie Ethernet/IP má poruchu. Vymeňte rozhranie Ethernet/IP.
MS LED dióda nesvieti.	Rozhranie Ethernet/IP je nastavené na vypnuté.	Zapnite napájanie.
MS LED dióda bliká nazeleno.	Konfigurácia nie je ukončená.	Počkajte niekoľko minút.
MS LED dióda bliká načerveno.	Zobrazuje sa tým chyba konfigurácie.	Informácie o kontrole konfigurácie nájdete v časti Konfigurácia rozhrania Ethernet/IP na strane 351.
MS LED dióda má červenú farbu.	Zobrazuje sa tým chyba.	Rozhranie Ethernet/IP má poruchu. Vymeňte rozhranie Ethernet/IP.
MS LED dióda bliká načerveno a nazeleno.	Automatický test nie je ukončený.	Počkajte niekoľko minút.

Hlásenie	Popis	Riešenie
NS LED dióda nesvieti.	Rozhranie Ethernet/IP je nastavené na vypnuté alebo nemá IP adresu.	Zapnite napájanie. Nastavte IP adresu.
NS LED dióda bliká nazeleno.	IP adresa je nastavená, ale pripojenie CIP nie je zavedené.	Počkajte niekoľko minút.
NS LED dióda bliká načerveno.	Pripojenie CIP sa zastavilo.	Skontrolujte, či nedošlo k vypršaniamu časového limitu.
NS LED dióda má červenú farbu.	Vybranú IP adresu používa iné zariadenie.	Zmeňte IP adresu na jedinečnú IP adresu.
L/A 1 alebo 2 LED dióda nesvieti.	Neexistuje žiadne pripojenie k iným zariadeniam.	Pripojte k zariadeniu.
L/A 1 alebo 2 LED dióda bliká nazeleno.	Žiadna výmena údajov.	Počkajte do ďalšej výmeny údajov.

9.3 Riešenie problémov so systémom Profinet

Obrázok 6 Rozhranie Profinet



Hlásenie	Popis	Riešenie
LED dióda napájania nesvieti.	Rozhranie systému Profinet je vypnuté.	Zapnite napájanie.
LED dióda napájania bliká nazeleno.	Proces spúšťania nie je ukončený.	Počkajte niekoľko minút.
LED dióda napájania bliká načerveno.	Zobrazuje sa tým výstraha.	Skontrolujte, či sú nainštalované všetky zariadenia.

Hlásenie	Popis	Riešenie
LED dióda napájania má červenú farbu.	Zobrazuje sa tým chyba.	Rozhranie systému Profinet má poruchu. Vymeňte rozhranie systému Profinet.
LED dióda prevádzky nesvieti.	Žiadne pripojenie k sieti.	Pripojte k sieti.
LED dióda prevádzky bliká nazeleno.	Kontrolér systému Profinet je pripojený, ale nevymieňajú sa údaje.	Počkajte do ďalšej výmeny údajov.
LED dióda prevádzky bliká pomaly nazeleno.	Spustené nástrojom na identifikáciu súčasti rozhrania.	Počkajte niekoľko minút.
Diagnostická LED dióda bliká načerveno.	Spustené nástrojom na identifikáciu súčasti rozhrania.	Počkajte niekoľko minút.
Diagnostická LED dióda bliká rýchlo načerveno.	Žiadne pripojenie ku kontroléru. V module nie je nastavený názov pre Profinet.	Informácie o nastavení názvu nájdete v časti Konfigurácia rozhrania Profinet na strane 354.
Diagnostická LED dióda má červenú farbu.	Zariadenie rozhrania zaznamenáva diagnostické údaje.	Preštudujte si diagnostický záznam.
L/A 1 alebo 2 LED dióda nesvieti.	Žiadne pripojenie k sieti.	Pripojte k sieti.
L/A 1 alebo 2 LED dióda bliká nazeleno.	Výmena údajov.	Počkajte, kým sa neskončí výmena údajov.

Vsebina

- | | | | |
|---|---|---|--|
| 1 | Predvidena uporaba na strani 361 | 6 | Nastavitev telegrama Modbus TCP kontrolne enote SC1500 na strani 370 |
| 2 | Uvod na strani 361 | 7 | Konfiguracija prehoda Ethernet/IP na strani 373 |
| 3 | Zagon konfiguracije USB na strani 363 | 8 | Konfiguracija prehoda Profinet na strani 376 |
| 4 | Primeri namestitev na strani 365 | 9 | Odpravljanje težav na strani 379 |
| 5 | Nastavitev telegrama Modbus TCP kontrolne enote SC4200c na strani 367 | | |

Razdelek 1 Predvidena uporaba

Ta navodila za nastavitev so predvidena za uporabo s strani oseb, ki vgrajujejo zunanji prehod Ethernet/IP ali prehod Profinet kot komponente strojne opreme v omrežje Claros.

Razdelek 2 Uvod

Proizvajalec ne odgovarja za škodo, ki bi nastala kot posledica napačne aplikacije ali uporabe tega izdelka, kar med drugim zajema neposredno, naključno in posledično škodo, in zavrača odgovornost za vso škodo v največji meri, dovoljeni z zadevno zakonodajo. Uporabnik je v celoti odgovoren za prepoznavo tveganj, ki jih predstavljajo kritične aplikacije, in namestitev ustreznih mehanizmov za zaščito procesov med potencialno okvaro opreme.

⚠ NEVARNOST



Smrtna nevarnost zaradi električnega udara. Pred vsemi posegi v električne povezave vedno izključite napajanje.

Potrebujete:

- pomnilniški ključ USB, formatiran kot FAT32
- osebni računalnik z operacijskim sistemom Windows¹ 10
- modul:
 - za implementacijo Ethernet/IP:
 - LXZ446.99.00001: PREHOD IIoT, osnovni modul RevPi
 - LXZ446.99.00002: PREHOD Ethernet/IP, podrejena enota
 - LXZ446.99.00003: mostiček za PiBridge
 - za implementacijo Profinet:
 - LXZ446.99.00001: PREHOD IIoT, osnovni modul RevPi
 - LXZ446.99.00007: PREHOD Profinet IRT, podrejena enota
 - LXZ446.99.00003: mostiček za PiBridge

Priključite tri module RevPi, podrejeno enoto in PiBridge na napajanje ter jih povežite z omrežjem LAN.

Prek povezav, ki so navedene v spodnji tabeli, vam je na voljo več informacij s strani proizvajalca modulov.

¹ Microsoft® Windows® je registrirana blagovna znamka podjetja Microsoft Corporation v ZDA in drugih državah.

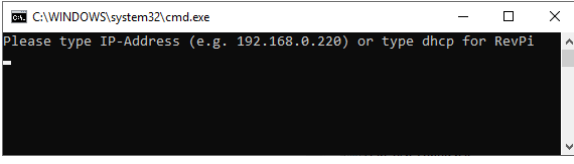
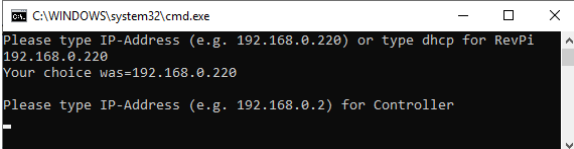
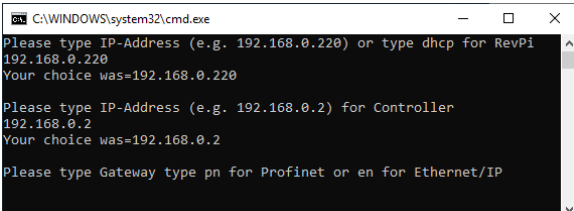
Modul	Povezava
PREHOD Profinet IRT, podrejena enota	https://www.kunbus.com/profinet-irt-gateway-module.html
PREHOD Ethernet/IP, podrejena enota	https://www.kunbus.com/ethernet-ip-gateway-module.html
PREHOD IIoT, osnovni modul RevPi	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
Kako priključite module RevPi	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Kako namestite module RevPi na vodilo DIN	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Kako priključite napajanje	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

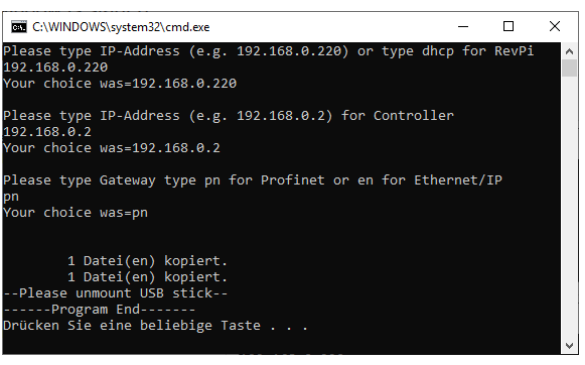


Pripravite pomnilniški ključ USB

1. V osebni računalnik vstavite prazen pomnilniški ključ USB.
2. Pojdite na <https://www.hach.com> in iščite po ključnih besedah »usb ethernet/IP installation« (Namestitev Ethernet/IP prek pomnilniškega ključa USB) ali »usb profinet installation« (Namestitev Profinet prek pomnilniškega ključa USB).
3. Prenesite datoteko USB_ETHIP_PRNET.zip.
4. Razširite datoteko v korenski imenik pomnilniškega ključa USB.

Razdelek 3 Zagon konfiguracije USB

V osebni računalnik vstavite pripravljen pomnilniški ključ USB.

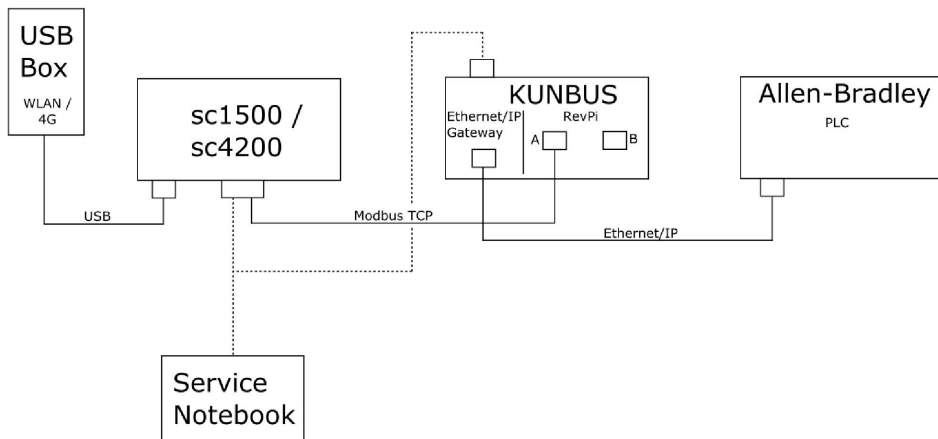
Korak	Opis	Slika
1	Zaženite datoteko start_usb_config.bat. Odpre se okno terminala. Sledite navodilom po korakih.	
2	Vnesite IP-naslov modula RevPi.	
3	Vnesite IP-naslov kontrolne enote SC. Predpona omrežja mora biti enaka kot pri modulu RevPi (npr. 192.168.0). Označevalnik gostitelja se mora razlikovati od modula RevPi (npr. 220 RevPi, 2 kontrolna enota).	
4	Vnesite vrsto prehoda: <ul style="list-style-type: none">• pn – Profinet• en – Ethernet/IP	

Korak	Opis	Slika
5	<p>Potrdite nastavitve s tipko ENTER. Izvlčite pomnilniški ključ USB.</p>	
6	<p>Pomnilniški ključ USB vstavite v levi priključek USB modula RevPi.</p>	
7	<p>Opis diod LED:</p> <ul style="list-style-type: none"> • A1/A2 oranžna: zažene se namestitev RevPi. • A1 rdeča, A2 ne sveti: vstavite pomnilniški ključ USB v RevPi. • A1 zelena, A2 ne sveti: pomnilniški ključ USB je uspešno vstavljen. • A1 ne sveti, A2 zelena: RevPi prenaša podatke s pomnilniškega ključa USB ali pa jih na slednjega nalaga. • A3 rdeča: RevPi se ponovno zaganja. <p>Ko je A3 rdeča, izvlčite pomnilniški ključ USB.</p>	
8	<p>Nastavitve za RevPi so dokončane.</p>	

Razdelek 4 Primeri namestitev

Slika 1 prikazuje namestitev z dvema različnima povezavama z omrežjem LAN.

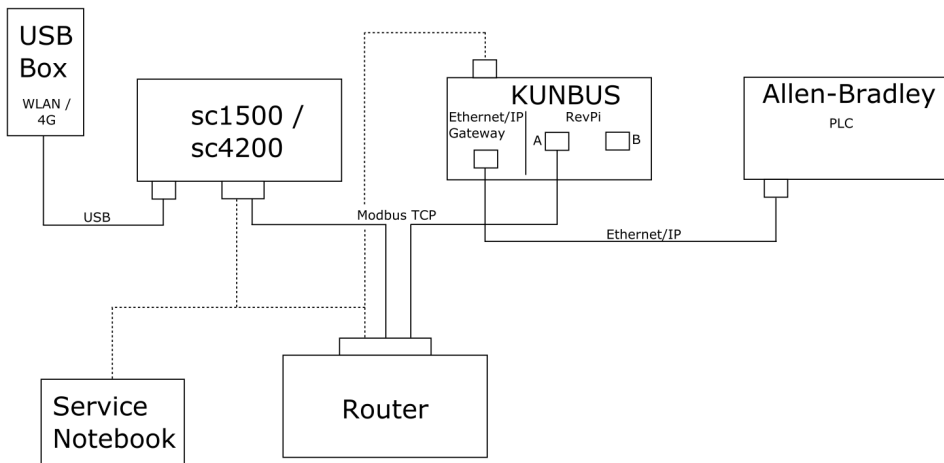
Slika 1 Primer 1



- Modbus TCP in Ethernet/IP uporabljata dve različni povezavi z omrežjem LAN.
- Vse naprave imajo statičen IP-naslov.
- Kontrolna enota ima internetni dostop prek povezave Wi-Fi ali mobilne povezave.
- Za nastavitve IP-naslovov kontrolne enote in prehoda Ethernet/IP je potreben prenosnik.

Slika 2 prikazuje namestitev z usmerjevalnikom za povezavo Modbus TCP.

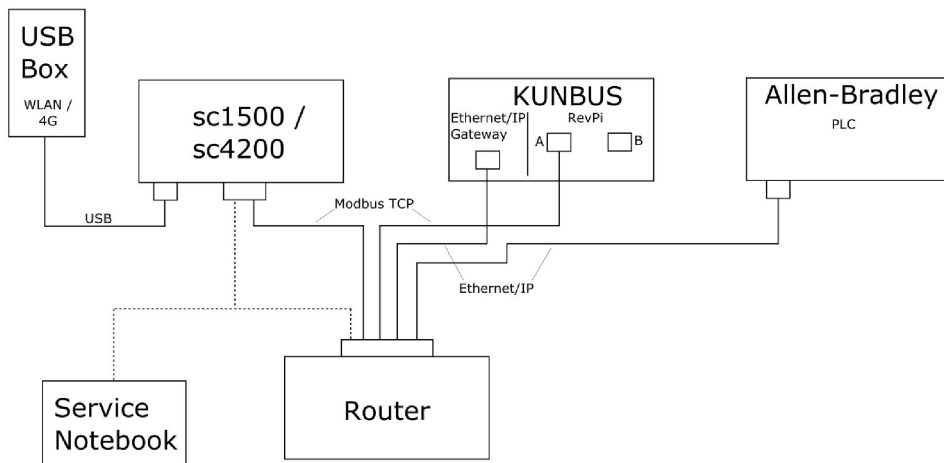
Slika 2 Primer 2



- Modbus TCP je priključen na usmerjevalnik.
- Vse naprave imajo statičen IP-naslov ali pa usmerjevalnik nastavi IP-naslov prek DHCP.
Napotek: Zagotovite, da usmerjevalnik vedno uporablja isti IP-naslov za iste naprave (MAC), če se uporablja DHCP.
- Kontrolna enota ima internetni dostop prek povezave Wi-Fi ali mobilne povezave.
- Za nastavitev IP-naslova kontrolne enote, prehoda Ethernet/IP in nastavitev usmerjevalnika je potreben prenosnik.

Slika 3 prikazuje namestitev z usmerjevalnikom ali stikalom za vse naprave.

Slika 3 Primer 3

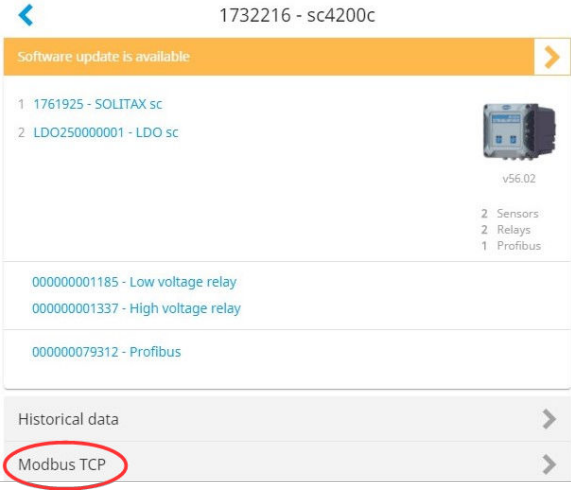
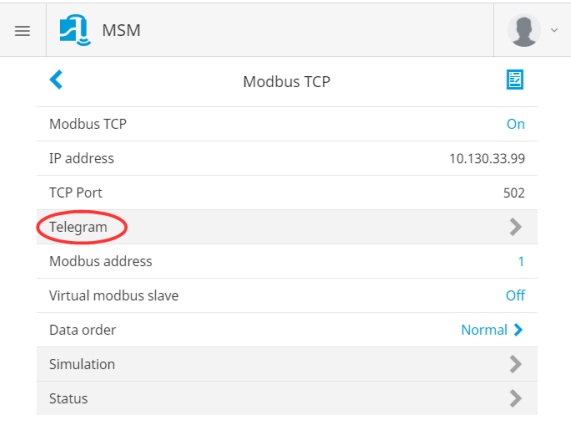


- Vse naprave so povezane z usmerjevalnikom ali stikalom.

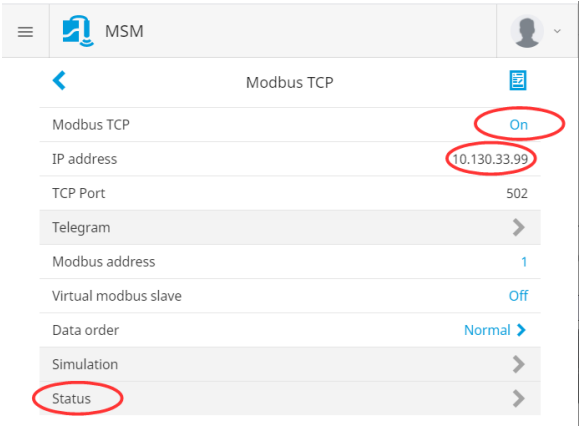
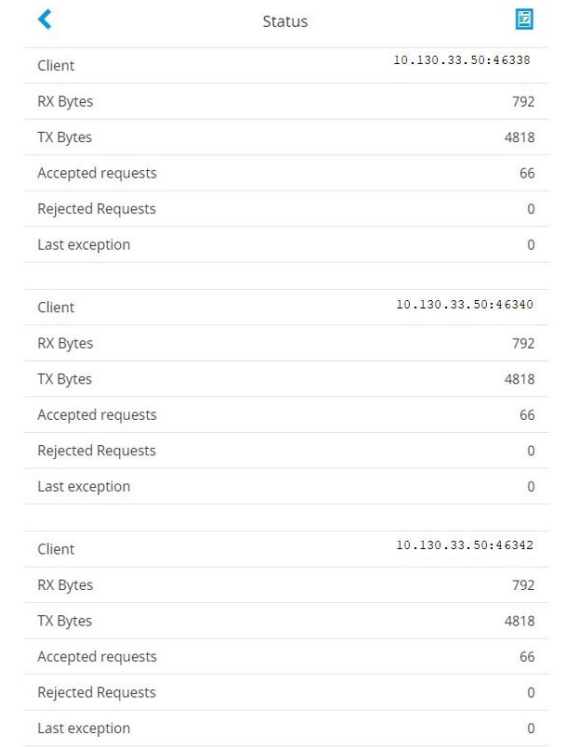
- Vse naprave imajo statičen IP-naslov ali pa usmerjevalnik ali stikalo nastavitva IP-naslov prek DHCP.
Napotek: Zagotovite, da usmerjevalnik vedno uporablja isti IP-naslov za iste naprave (MAC), če se uporablja DHCP.
- Kontrolna enota ima internetni dostop prek povezave Wi-Fi ali mobilne povezave.
- Za nastavitvev IP-naslova kontrolne enote in nastavitvev usmerjevalnika je potreben prenosnik.

Razdelek 5 Nastavitvev telegrama Modbus TCP kontrolne enote SC4200c

Zaženite aplikacijo Claros in sledite navodilom po korakih.

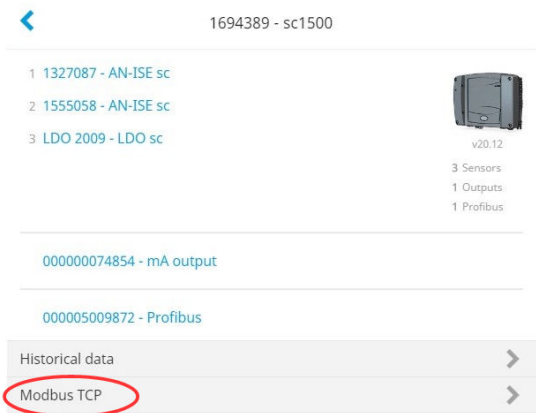
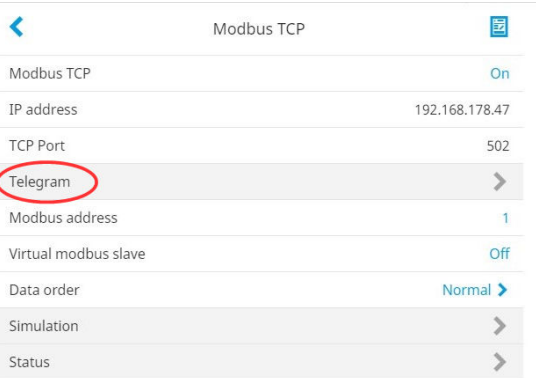
Korak	Opis	Slika
1	Izberite meni kontrolne enote, nato pritisnite Modbus TCP .	
2	Izberite Telegram , da nastavite telegram Modbus TCP.	

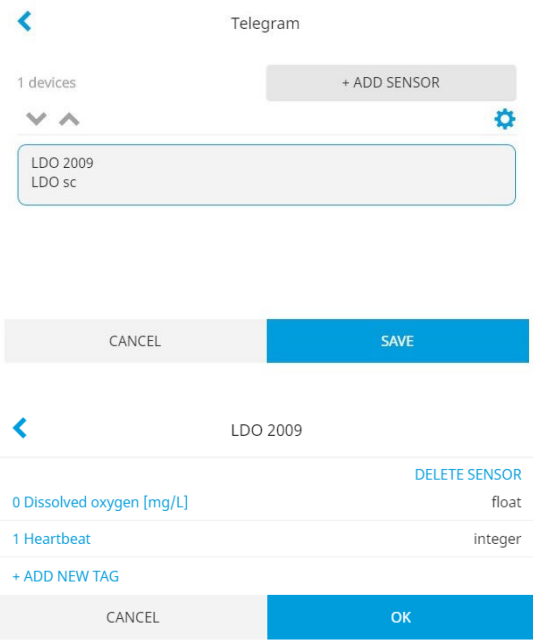
Korak	Opis	Slika
3	<p>Prikazan telegram je primer za senzor LDO sc. Nastavite Heartbeat (Utrip) na celo število. Heartbeat (Utrip) je števec, ki prikazuje posodobitev vrednosti v korakih po eno sekundo.</p> <p>Napotek: Vsebina telegrama Modbus TCP je enaka kot pri telegramu Profibus.</p>	

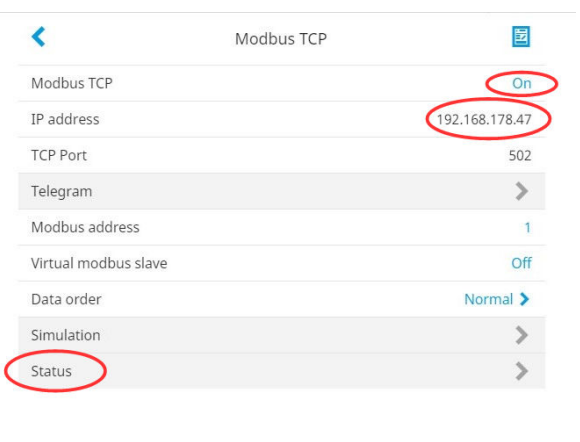
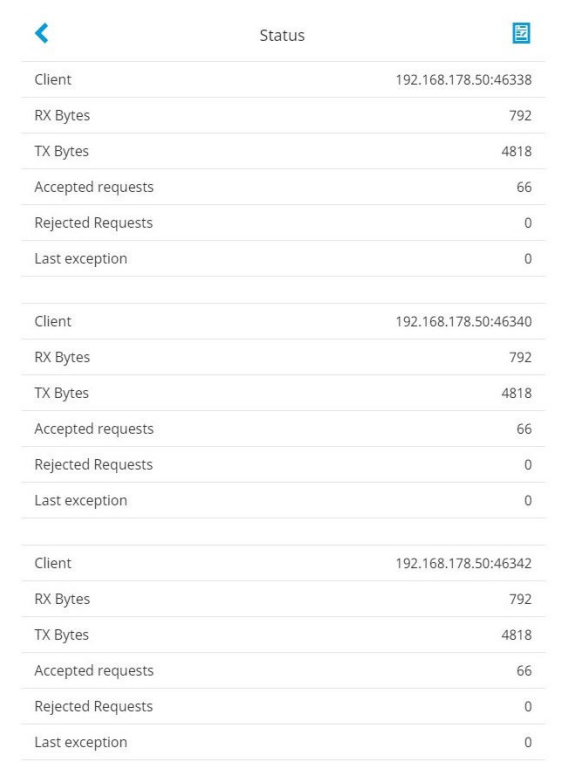
Korak	Opis	Slika																								
4	<p>Meni Modbus TCP prikazuje IP-naslov kontrolne enote. 10.130.33.99 je IP-naslov, ki je nastavljen v servisnem meniju kontrolne enote.</p> <p>Nastavite Modbus TCP na On (Vključeno), nato pritisnite Status (Stanje).</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. The 'Status' is set to 'On', the IP address is '10.130.33.99', and the 'Status' button at the bottom is highlighted with a red circle.</p>																								
5	<p>Meni Status (Stanje) prikazuje statistiko Modbus TCP. 10.130.33.50 je IP-naslov modula RevPi. RevPi ima 5 glavnih enot Modbus TCP.</p>	 <p>The screenshot shows the 'Status' page with statistics for three clients. Each client's IP address is 10.130.33.50. The statistics for each client are:</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>10.130.33.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	10.130.33.50:46338	792	4818	66	0	0	10.130.33.50:46340	792	4818	66	0	0	10.130.33.50:46342	792	4818	66	0	0
Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception																					
10.130.33.50:46338	792	4818	66	0	0																					
10.130.33.50:46340	792	4818	66	0	0																					
10.130.33.50:46342	792	4818	66	0	0																					

Razdelek 6 Nastavitve telegrama Modbus TCP kontrolne enote SC1500

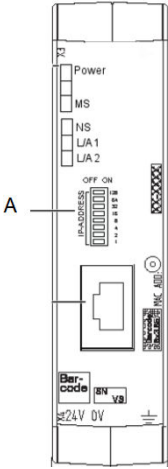
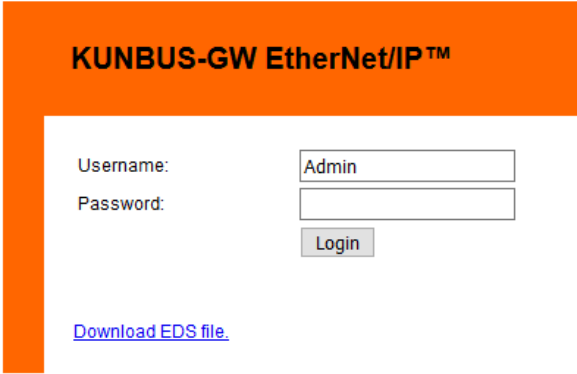
Zaženite aplikacijo Claros in sledite navodilom po korakih.


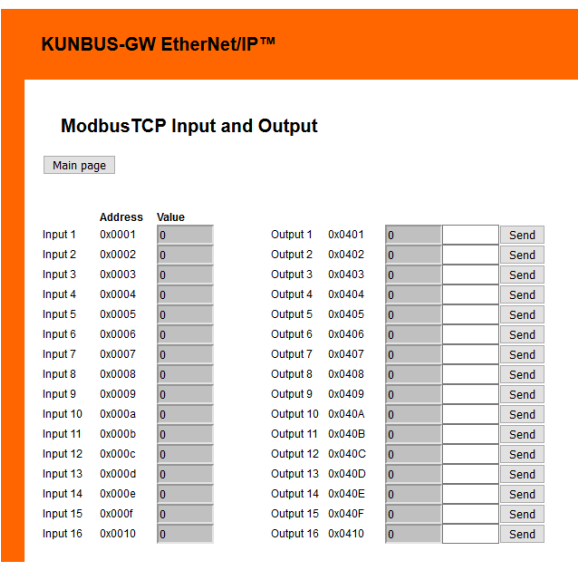
Korak	Opis	Slika
1	Izberite meni kontrolne enote, nato pritisnite Modbus TCP .	
2	Izberite Telegram , da nastavite telegram Modbus TCP.	

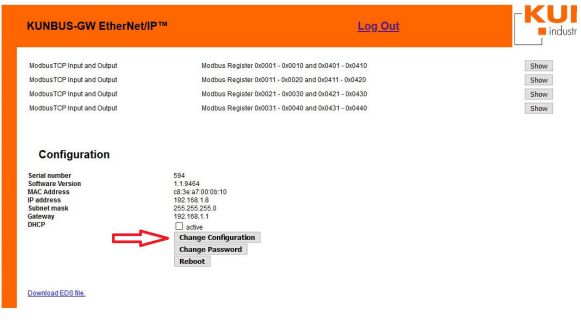

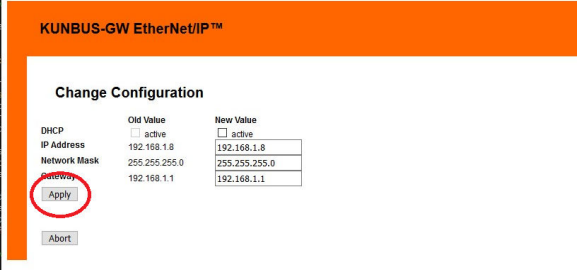
Korak	Opis	Slika
3	<p>Prikazan telegram je primer za senzor LDO sc. Nastavite Heartbeat (Utrip) na celo število. Heartbeat (Utrip) je števec, ki prikazuje posodobitev vrednosti v korakih po eno sekundo.</p> <p>Napotek: Vsebina telegrama Modbus TCP je enaka kot pri telegramu Profibus.</p>	 <p>The image contains two screenshots of a configuration interface. The top screenshot is titled 'Telegram' and shows a list of sensors under '1 devices'. A sensor 'LDO 2009 LDO sc' is highlighted. There are 'CANCEL' and 'SAVE' buttons at the bottom. The bottom screenshot is titled 'LDO 2009' and shows configuration options: '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer). There are 'DELETE SENSOR', '+ ADD NEW TAG', 'CANCEL', and 'OK' buttons at the bottom.</p>

Korak	Opis	Slika																								
4	<p>Meni Modbus TCP prikazuje IP-naslov kontrolne enote. 192.168.178.47 je IP-naslov, ki je nastavljen v servisnem meniju kontrolne enote.</p> <p>Nastavite Modbus TCP na On (Vklopljeno), nato pritisnite Status (Stanje).</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a back arrow, the title 'Modbus TCP', and a help icon. Below are several settings: 'Modbus TCP' is set to 'On' (circled in red); 'IP address' is '192.168.178.47' (circled in red); 'TCP Port' is '502'; 'Telegram' is a dropdown menu with a right arrow; 'Modbus address' is '1'; 'Virtual modbus slave' is 'Off'; 'Data order' is 'Normal' with a right arrow; 'Simulation' is a dropdown menu with a right arrow; and 'Status' is a dropdown menu with a right arrow (circled in red).</p>																								
5	<p>Meni Status (Stanje) prikazuje statistiko Modbus TCP. 192.168.178.50 je IP-naslov modula RevPi. RevPi ima 7 glavnih enot Modbus TCP.</p>	 <p>The screenshot shows the 'Status' screen with three client entries. Each entry lists statistics for a specific client IP address: 192.168.178.50:46338, 192.168.178.50:46340, and 192.168.178.50:46342. The statistics for each client are: Client, RX Bytes, TX Bytes, Accepted requests, Rejected Requests, and Last exception.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>192.168.178.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	192.168.178.50:46338	792	4818	66	0	0	192.168.178.50:46340	792	4818	66	0	0	192.168.178.50:46342	792	4818	66	0	0
Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception																					
192.168.178.50:46338	792	4818	66	0	0																					
192.168.178.50:46340	792	4818	66	0	0																					
192.168.178.50:46342	792	4818	66	0	0																					

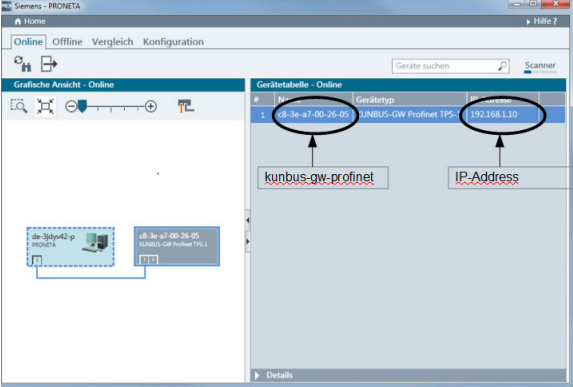
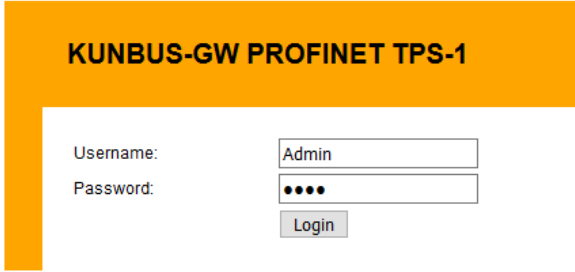
Razdelek 7 Konfiguracija prehoda Ethernet/IP

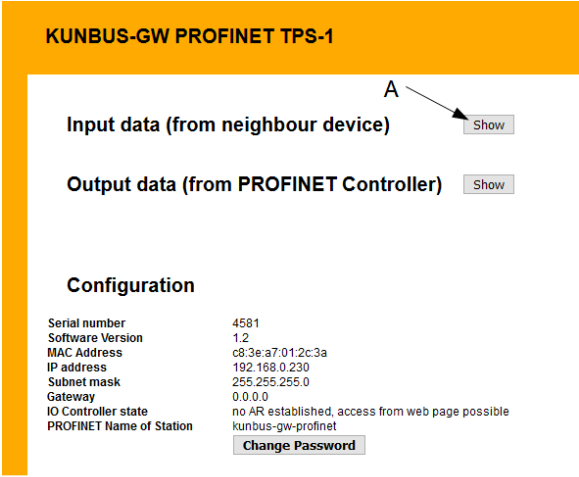
Korak	Opis	Slika
1	<ul style="list-style-type: none"> • Z vmesniškim kablom LAN-do-USB povežite prehod Ethernet/IP z osebnim računalnikom. • Glejte Uvod na strani 361. Uporabite povezavo podrejene enote PREHODA Ethernet/IP. Upoštevajte navodila v proizvajalčevem uporabniškem priročniku – <i>Komponenta prehoda za EtherNet/IP</i>. • Uporabite 8-pinsko stikalo (A) za naslov, da označevalnik gostitelja nastavite na binarno obliko zapisa prehoda. <ul style="list-style-type: none"> • Primer: nastavite gostitelja na 8: 00010000 • Odprite spletno stran http://192.168.1.X (X = vsota vseh stikal, nastavljenih na ON (Vklopljeno)). 	 <p>The diagram shows the rear panel of the KUNBUS-GW Ethernet/IP device. It features several components: a Power switch, MS, NS, LIA 1, and LIA 2 switches, an 8-pin switch labeled 'A' with a barcode, and a barcode labeled 'Bar-code' with 'BIN' and 'V8' indicators. A power input is labeled '24V 0V'.</p>
2	<p>Odprite brskalnik in vnesite naslednji IP-naslov: 192.168.1.X. Prijavni podatki za prvo prijavo: Uporabnik: Admin Geslo: 1701 Pritisnite Login (Prijava).</p>	 <p>The screenshot shows the login page for the KUNBUS-GW EtherNet/IP device. The page has an orange header with the text 'KUNBUS-GW EtherNet/IP™'. Below the header is a login form with the following fields and buttons:</p> <ul style="list-style-type: none"> Username: <input type="text" value="Admin"/> Password: <input type="password"/> <input type="button" value="Login"/> <p>At the bottom of the page, there is a link: Download EDS file.</p>

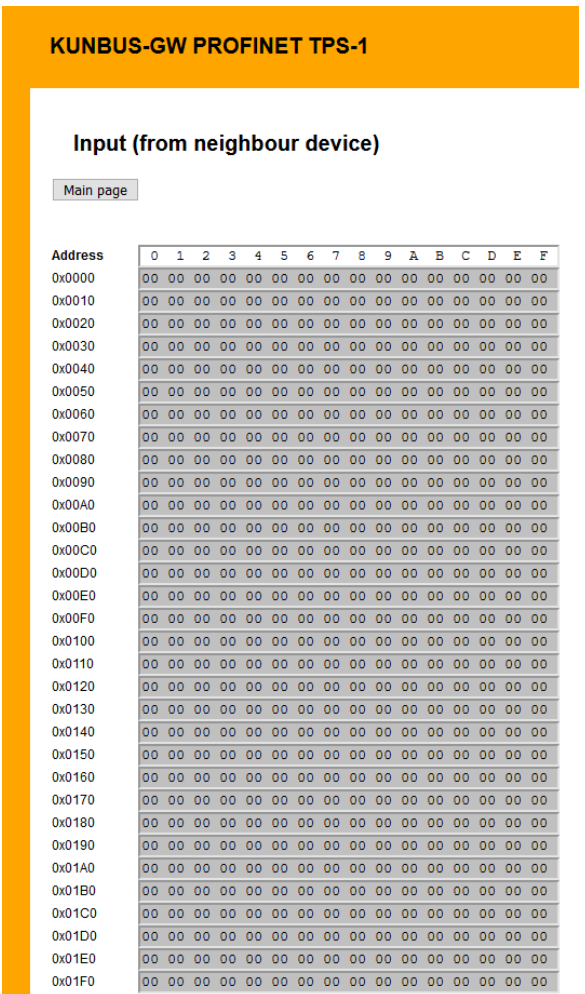
Korak	Opis	Slika																																																																																					
3	<p>Kontrolna enota in prehod Ethernet/IP preneseta podatkovno območje 0000 - 01BF, ki ga sestavlja 448 bajtov ali 112 števil s plavajočo vejico ali 224 celih števil ali kombinacija omenjenih, in sicer na osnovi vrste telegrama Modbus TCP v kontrolni enoti.</p> <p><i>Napotek: Prikazano je samo prvo podatkovno območje do 32 celih števil. Oglejte si vse podatke v sistemu PLC (224 celih števil).</i></p> <p>Pritisnite Show (Prikaži).</p>																																																																																						
4	<p>Prikaže se izbrano podatkovno območje.</p>	 <table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Input 1</td> <td>0x0001</td> <td>0</td> <td>Output 1</td> <td>0x0401</td> </tr> <tr> <td>Input 2</td> <td>0x0002</td> <td>0</td> <td>Output 2</td> <td>0x0402</td> </tr> <tr> <td>Input 3</td> <td>0x0003</td> <td>0</td> <td>Output 3</td> <td>0x0403</td> </tr> <tr> <td>Input 4</td> <td>0x0004</td> <td>0</td> <td>Output 4</td> <td>0x0404</td> </tr> <tr> <td>Input 5</td> <td>0x0005</td> <td>0</td> <td>Output 5</td> <td>0x0405</td> </tr> <tr> <td>Input 6</td> <td>0x0006</td> <td>0</td> <td>Output 6</td> <td>0x0406</td> </tr> <tr> <td>Input 7</td> <td>0x0007</td> <td>0</td> <td>Output 7</td> <td>0x0407</td> </tr> <tr> <td>Input 8</td> <td>0x0008</td> <td>0</td> <td>Output 8</td> <td>0x0408</td> </tr> <tr> <td>Input 9</td> <td>0x0009</td> <td>0</td> <td>Output 9</td> <td>0x0409</td> </tr> <tr> <td>Input 10</td> <td>0x000a</td> <td>0</td> <td>Output 10</td> <td>0x040A</td> </tr> <tr> <td>Input 11</td> <td>0x000b</td> <td>0</td> <td>Output 11</td> <td>0x040B</td> </tr> <tr> <td>Input 12</td> <td>0x000c</td> <td>0</td> <td>Output 12</td> <td>0x040C</td> </tr> <tr> <td>Input 13</td> <td>0x000d</td> <td>0</td> <td>Output 13</td> <td>0x040D</td> </tr> <tr> <td>Input 14</td> <td>0x000e</td> <td>0</td> <td>Output 14</td> <td>0x040E</td> </tr> <tr> <td>Input 15</td> <td>0x000f</td> <td>0</td> <td>Output 15</td> <td>0x040F</td> </tr> <tr> <td>Input 16</td> <td>0x0010</td> <td>0</td> <td>Output 16</td> <td>0x0410</td> </tr> </tbody> </table>	Address	Value				Input 1	0x0001	0	Output 1	0x0401	Input 2	0x0002	0	Output 2	0x0402	Input 3	0x0003	0	Output 3	0x0403	Input 4	0x0004	0	Output 4	0x0404	Input 5	0x0005	0	Output 5	0x0405	Input 6	0x0006	0	Output 6	0x0406	Input 7	0x0007	0	Output 7	0x0407	Input 8	0x0008	0	Output 8	0x0408	Input 9	0x0009	0	Output 9	0x0409	Input 10	0x000a	0	Output 10	0x040A	Input 11	0x000b	0	Output 11	0x040B	Input 12	0x000c	0	Output 12	0x040C	Input 13	0x000d	0	Output 13	0x040D	Input 14	0x000e	0	Output 14	0x040E	Input 15	0x000f	0	Output 15	0x040F	Input 16	0x0010	0	Output 16	0x0410
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5	<p>Pritisnite Change Configuration (Zamenjaj konfiguracijo), da nastavite IP-naslov.</p>	 <p>KUNBUS-GW EtherNet/IP™ Log Out </p> <p>Modbus TCP Input and Output Modbus Register 0x0011 - 0x0010 and 0x0401 - 0x0410 Show</p> <p>Modbus TCP Input and Output Modbus Register 0x0011 - 0x0020 and 0x0411 - 0x0420 Show</p> <p>Modbus TCP Input and Output Modbus Register 0x0021 - 0x0030 and 0x0421 - 0x0430 Show</p> <p>Modbus TCP Input and Output Modbus Register 0x0031 - 0x0040 and 0x0431 - 0x0440 Show</p> <p>Configuration</p> <p>Serial number 994</p> <p>Software Version 1.1.0454</p> <p>MAC Address c8:3e:27:0b:2b:10</p> <p>IP Address 192.168.1.8</p> <p>Subnet mask 255.255.255.0</p> <p>Gateway 192.168.1.1</p> <p>DHCP <input type="checkbox"/> active</p> <p>Change Configuration Change Password Reboot</p> <p>Download FDS file</p>															
6	<p>Zamenjajte IP-naslov v skladu z naslovom prehoda.</p> <p>Za potrditev pritisnite Apply (Uporabi).</p> <p>Izklopite vsa stikala DIP.</p> <p>Izklopite napajanje prehoda, nato ponovno zaženite. Zdaj je v uporabi novi IP-naslov.</p>	 <p>KUNBUS-GW EtherNet/IP™</p> <p>Change Configuration</p> <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td><input checked="" type="checkbox"/> active</td> <td><input type="checkbox"/> active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table> <p>Apply Abort</p>		Old Value	New Value	DHCP	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0	Gateway	192.168.1.1	192.168.1.1
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Network Mask	255.255.255.0	255.255.255.0															
Gateway	192.168.1.1	192.168.1.1															

Razdelek 8 Konfiguracija prehoda Profinet

Korak	Opis	Slika
1	<ul style="list-style-type: none">• Z adapterjem LAN-do-LAN povežite prehod Profinet z osebnim računalnikom.• Glejte Uvod na strani 361. Uporabite povezavo podrejene enote PREHODA Profinet IRT. Upoštevajte navodila v proizvajalčevem uporabniškem priročniku – <i>Komponenta prehoda za PROFINET</i>.• Uporabite programsko opremo PRONETA, da nastavite ime na kunbus-gw-profinet.• Vnesite IP-naslov, ki je v uporabi.	
2	<p>Odprite brskalnik in vnesite IP-naslov. Prijavni podatki za prvo prijavo:</p> <p>Uporabnik: Admin Geslo: 1701 Pritisnite Login (Prijava).</p>	

Korak	Opis	Slika																
3	Pritisnite Show (Prikaži; A) za prikaz vhodnih podatkov.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table border="0"> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
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4	<p>Prikaže vse podatke, ki so bili s kontrolne enote poslani na prehod Profinet. 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Razdelek 9 Odpravljanje težav

9.1 Odpravljanje težav – RevPi

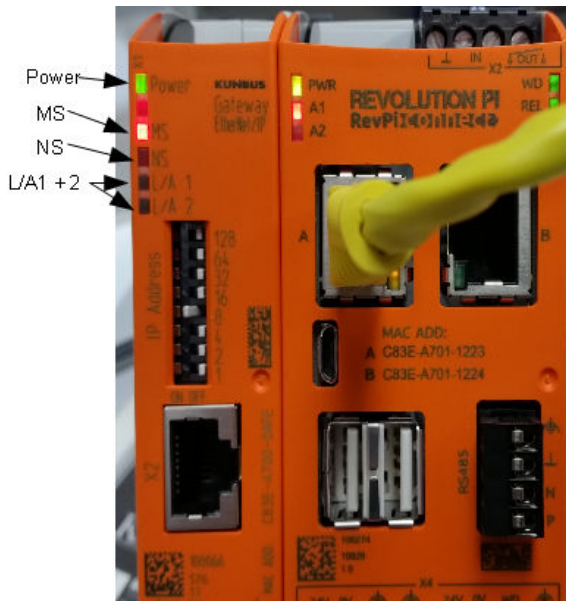
Slika 4 Osnovni modul RevPi



Sporočilo	Opis	Rešitev
Dioda LED A2 utripa rdeče.	Komunikacija je zaustavljena.	<ul style="list-style-type: none">• Priključite omrežni kabel (kabel ali usmerjevalnik).• Nastavitev »Modbus address« (Naslov Modbus) v sistemu Claros nastavite na 1.• Modbus TCP v meniju sistema Claros nastavite na »On« (Vključeno).
Dioda LED A3 počasi utripa rdeče.	Konfiguracija prehodov Ethernet/IP in Profinet je pomešana.	Oglejte si Zagon konfiguracije USB na strani 363, korak 4 in izberite ustrezno vrsto prehoda: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Odpravljanje težav – Ethernet/IP

Slika 5 Prehod Ethernet/IP

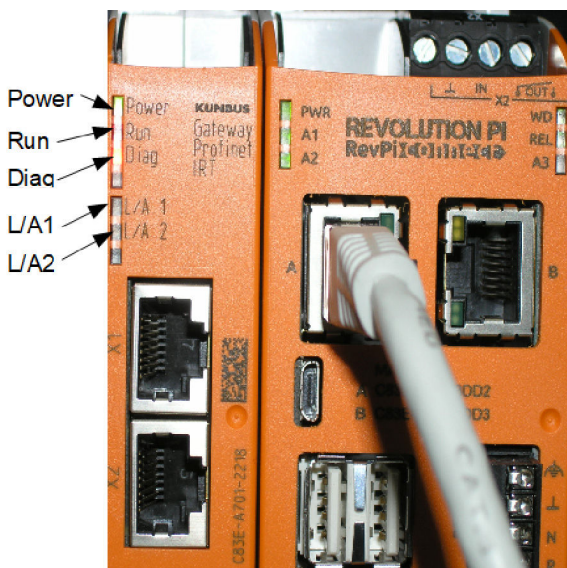


Sporočilo	Opis	Rešitev
Indikator vklopa ne svetí.	Prehod Ethernet/IP je izklopljen.	Vklopite enoto.
Indikator vklopa utripa zeleno.	Postopek zagona ni dokončan.	Počakajte nekaj minut.
Indikator vklopa utripa rdeče.	Opozarja.	Preverite, ali so priključene vse naprave.
Indikator vklopa svetí rdeče.	Kaže na napako.	Prehod Ethernet/IP je v okvari. Zamenjajte prehod Ethernet/IP.
Dioda LED MS ne svetí.	Prehod Ethernet/IP je izklopljen.	Vklopite enoto.
Dioda LED MS utripa zeleno.	Postopek konfiguracije ni dokončan.	Počakajte nekaj minut.
Dioda LED MS utripa rdeče.	Kaže na napako konfiguracije.	Za pregled konfiguracije glejte Konfiguracija prehoda Ethernet/IP na strani 373.
Dioda LED MS svetí rdeče.	Kaže na napako.	Prehod Ethernet/IP je v okvari. Zamenjajte prehod Ethernet/IP.
Dioda LED MS utripa rdeče in zeleno.	Samopreverjanje ni dokončano.	Počakajte nekaj minut.
Dioda LED NS ne svetí.	Prehod Ethernet/IP je izklopljen ali nima IP-naslova.	Vklopite enoto. Nastavite IP-naslov.
Dioda LED NS utripa zeleno.	IP-naslov je nastavljen, vendar povezava CIP ni vzpostavljena.	Počakajte nekaj minut.

Sporočilo	Opis	Rešitev
Dioda LED NS utripa rdeče.	Povezava CIP je zaustavljena.	Preverite, ali je prišlo do pretoka časa.
Dioda LED NS sveti rdeče.	Izbrani IP-naslov uporablja druga naprava.	IP-naslov spremenite v edinstven naslov IP.
Dioda LED L/A 1 ali 2 ne sveti.	Ni povezave z drugimi napravami.	Povežite z napravo.
Dioda LED L/A 1 ali 2 utripa zeleno.	Ni izmenjave podatkov.	Počakajte do naslednje izmenjave podatkov.

9.3 Odpravljanje težav – Profinet

Slika 6 Prehod Profinet



Sporočilo	Opis	Rešitev
Indikator vklopa ne sveti.	Prehod Profinet je izklopljen.	Vklopite enoto.
Indikator vklopa utripa zeleno.	Postopek zagona ni dokončan.	Počakajte nekaj minut.
Indikator vklopa utripa rdeče.	Opozarja.	Preverite, ali so nameščene vse naprave.
Indikator vklopa sveti rdeče.	Kaže na napako.	Prehod Profinet je v okvari. Zamenjajte prehod Profinet.
Indikator delovanja ne sveti.	Ni povezave z omrežjem.	Povežite z omrežjem.
Indikator delovanja utripa zeleno.	Kontrolna enota Profinet je povezana, a ni izmenjave podatkov.	Počakajte do naslednje izmenjave podatkov.

Sporočilo	Opis	Rešitev
Indikator delovanja počasi utripa zeleno.	Sproži ga orodje za identifikacijo komponente prehoda.	Počakajte nekaj minut.
Indikator diagnostike utripa rdeče.	Sproži ga orodje za identifikacijo komponente prehoda.	Počakajte nekaj minut.
Indikator diagnostike hitro utripa rdeče.	Ni povezave s kontrolno enoto. V modulu ni nastavljeno ime za Profinet.	Za nastavitve imena glejte Konfiguracija prehoda Profinet na strani 376.
Indikator diagnostike sveti rdeče.	Naprava prehoda poroča diagnostične podatke.	Oglejte si diagnostično poročilo.
Dioda LED L/A 1 ali 2 ne sveti.	Ni povezave z omrežjem.	Povežite z omrežjem.
Dioda LED L/A 1 ali 2 utripa zeleno.	Izmenjava podatkov.	Počakajte, da je izmenjava podatkov dokončana.

Innehållsförteckning

- | | | | |
|---|---|---|--|
| 1 | Avsedd användning på sidan 383 | 6 | Konfigurera SC1500-styrenhetens Modbus TCP-telegram på sidan 392 |
| 2 | Inledning på sidan 383 | 7 | Konfigurera Ethernet/IP-gatewayen på sidan 395 |
| 3 | Starta USB-konfigurationen på sidan 385 | 8 | Konfigurera Profinet-gatewayen på sidan 398 |
| 4 | Installationsexempel på sidan 386 | 9 | Felsökning på sidan 401 |
| 5 | Konfigurera SC4200c-styrenhetens Modbus TCP-telegram på sidan 389 | | |

Avsnitt 1 Avsedd användning

Dessa konfigurationsanvisningar är avsedda för personer som integrerar en extern Ethernet/IP-gateway eller Profinet-gateway som maskinvarukomponenter i Claros-nätverket.

Avsnitt 2 Inledning

Tillverkaren tar inget ansvar för skador till följd av att produkten används på fel sätt eller missbrukas. Det omfattar utan begränsning direkta skador, oavsiktliga skador eller följdskador. Tillverkaren avsäger sig allt ansvar i den omfattning gällande lag tillåter. Användaren är ensam ansvarig för att identifiera kritiska användningsrisker och installera lämpliga mekanismer som skyddar processer vid eventuella utrustningsfel.

⚠ FARA	
	Risk för dödande elchock. Koppla alltid bort strömmen till instrumentet innan du gör elektriska kopplingar.

Artiklar som ska finnas tillgängliga:

- USB-minne formaterat som FAT32
- Windows-dator¹ 10
- Modul:
 - För Ethernet/IP-implementering:
 - LXZ446.99.00001: GATEWAY IIoT RevPi-basmodul
 - LXZ446.99.00002: GATEWAY Ethernet/IP-slav
 - LXZ446.99.00003: Bygel för PiBridge
 - För Profinet-implementering:
 - LXZ446.99.00001: GATEWAY IIoT RevPi-basmodul
 - LXZ446.99.00007: GATEWAY Profinet IRT-slav
 - LXZ446.99.00003: Bygel för PiBridge

Anslut de tre modulerna RevPi, slaven och PiBridge till ström och LAN-nätverket.

Se länkarna i tabellen nedan för att få mer information från modulernas tillverkare.

Modul	Länk
GATEWAY Profinet IRT-slav	https://www.kunbus.com/profinet-irt-gateway-module.html
GATEWAY Ethernet/IP-slav	https://www.kunbus.com/ethernet-ip-gateway-module.html
GATEWAY IIoT RevPi-basmodul	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US

¹ Microsoft® Windows® är ett registrerat varumärke som tillhör Microsoft Corporation i USA och andra länder.

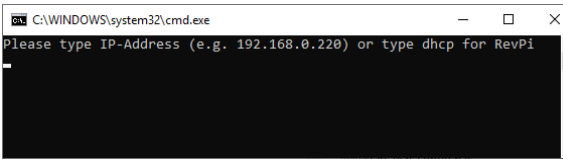
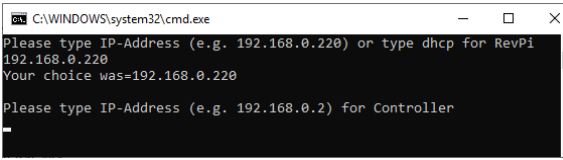
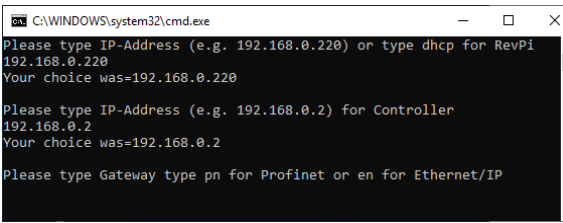
Modul	Länk
Hur man ansluter RevPi-moduler	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
Hur man installerar RevPi-moduler på en DIN-skena	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Hur man ansluter du strömförsörjningen	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

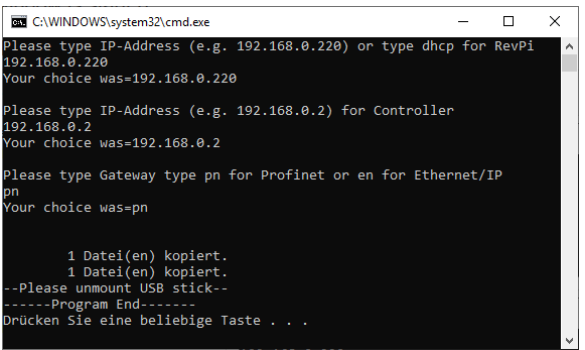


Förbered USB-minnet

1. Sätt i ett tomt USB-minne i datorn.
2. Gå till <https://www.hach.com> och sök efter nyckelorden "usb ethernet/IP installation" eller "usb profinet installation".
3. Hämta filen USB_ETHIP_PRNET.zip.
4. Packa upp filen i USB-minnets rotkatalog.

Avsnitt 3 Starta USB-konfigurationen

Sätt i det förberedda USB-minnet i datorn.

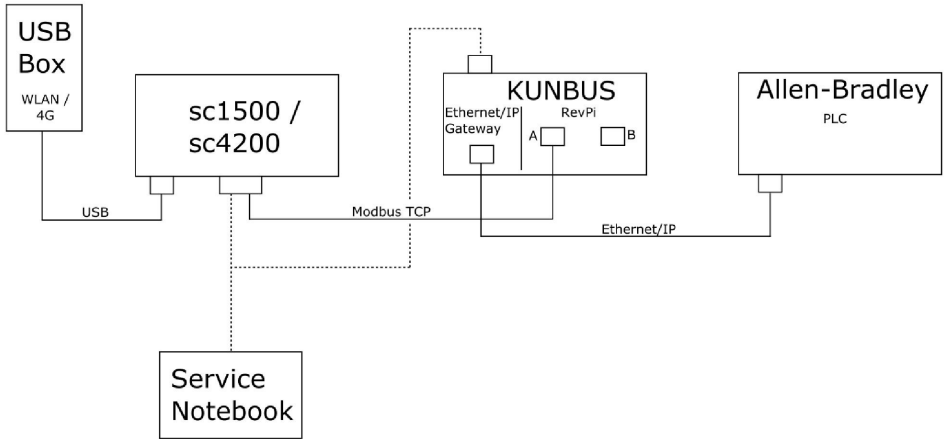
Steg	Beskrivning	Bild
1	Starta start_usb_config.bat. Ett terminalfönster öppnas. Följ den stegvisa guiden.	
2	Ange RevPi-modulens IP-adress.	
3	Ange SC-styrenhetens IP-adress. Se till att nätverksprefixet är detsamma som för RevPi-modulen (t.ex. 192.168.0). Se till att värdidentifieraren skiljer sig från RevPi-modulen (t.ex. 220 för RevPi, 2 för styrenheten).	
4	Ange typ av gateway: <ul style="list-style-type: none">• pn – Profinet• en – Ethernet/IP	

Steg	Beskrivning	Bild
5	Bekräfta varje inställning genom att trycka på Enter. Ta ut USB-minnet.	 <pre> C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi 192.168.0.220 Your choice was=192.168.0.220 Please type IP-Address (e.g. 192.168.0.2) for Controller 192.168.0.2 Your choice was=192.168.0.2 Please type Gateway type pn for Profinet or en for Ethernet/IP pn Your choice was=pn 1 Datei(en) kopiert. 1 Datei(en) kopiert. --Please unmount USB stick-- -----Program End----- Drücken Sie eine beliebige Taste . . . </pre>
6	Sätt in USB-minnet i det vänstra USB-uttaget på RevPi-modulen.	
7	<p>LED-beskrivning:</p> <ul style="list-style-type: none"> • A1/A2 orange: RevPi-installationen startar. • A1 röd, A2 av: Sätt i USB-minnet för RevPi. • A1 grön, A2 av: USB-minnet har satts i. • A1 av, A2 grön: RevPi hämtar/överför data från/till USB-minnet. • A3 röd: RevPi startar om. <p>Ta ut USB-minnet när A3 är röd.</p>	
8	RevPi-inställningarna är slutförda.	

Avsnitt 4 Installationsexempel

Figuren 1 visar en installation med två olika LAN-anslutningar.

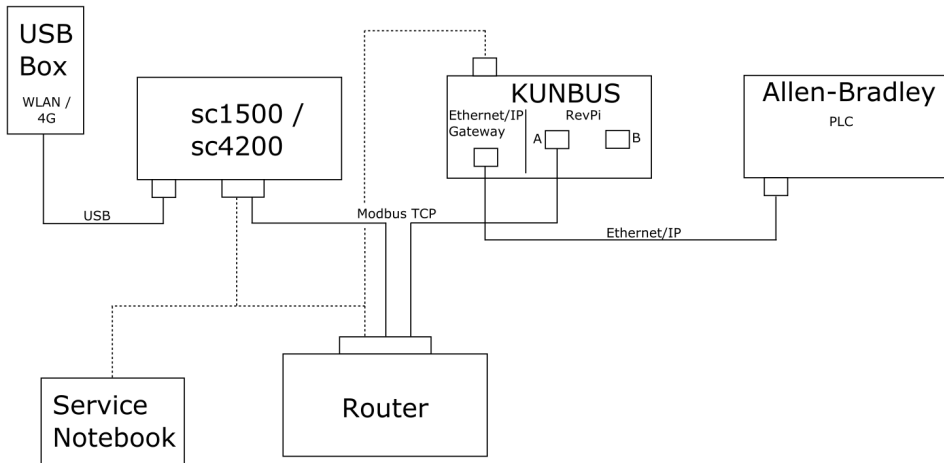
Figur 1 Exempel 1



- Modbus TCP och Ethernet/IP använder två olika LAN-anlutningar.
- Alla enheter har en statisk IP-adress.
- Styrenheten har internetåtkomst via Wi-Fi- eller mobilanslutning.
- Du måste använda en bärbar dator för att konfigurera styrenhetens och Ethernet/IP-gatewayens IP-adress.

Figur 2 visar en installation med en router för Modbus TCP-anslutningen.

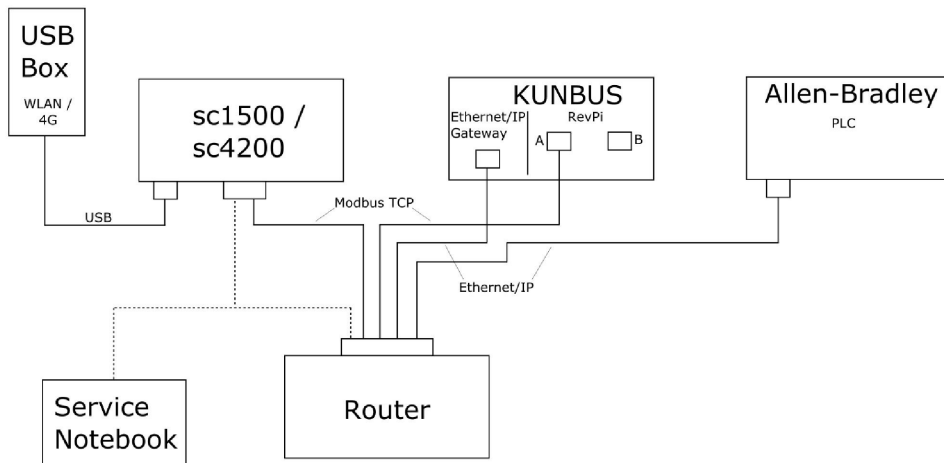
Figur 2 Exempel 2



- Modbus TCP är ansluten till en router.
- Alla enheter har en statisk IP-adress eller också ställer routern in IP-adressen via DHCP.
Observera: Se till att routern alltid använder samma IP-adress för samma enheter (MAC) om DHCP används.
- Styrenheten har internetåtkomst via Wi-Fi- eller mobilanslutning.
- Du måste använda en bärbar dator för att konfigurera styrenhetens, Ethernet/IP-gateways och routerns IP-adress.

Figur 3 visar en installation med en router eller switch för alla enheter.

Figur 3 Exempel 3



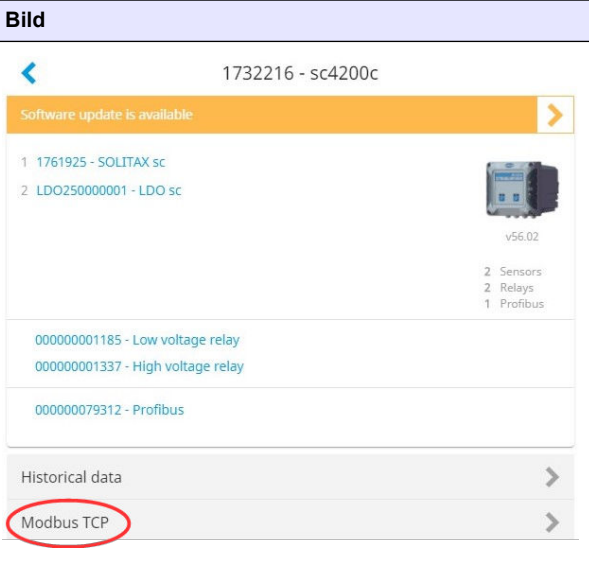
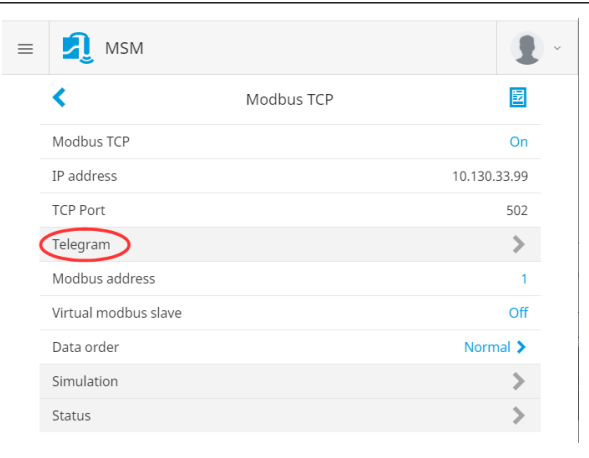
- Alla enheter är anslutna via en router eller switch.
- Alla enheter har en statisk IP-adress eller också ställer routern eller switchen in IP-adressen via DHCP.

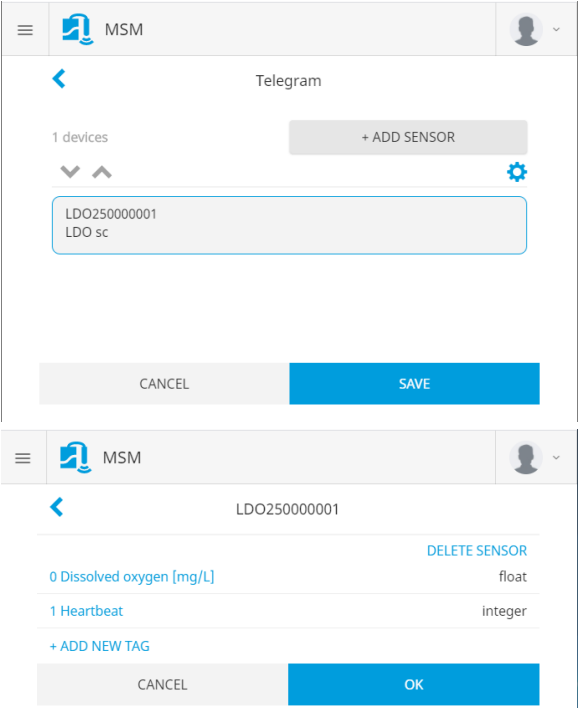
Observera: Se till att routern alltid använder samma IP-adress för samma enheter (MAC) om DHCP används.

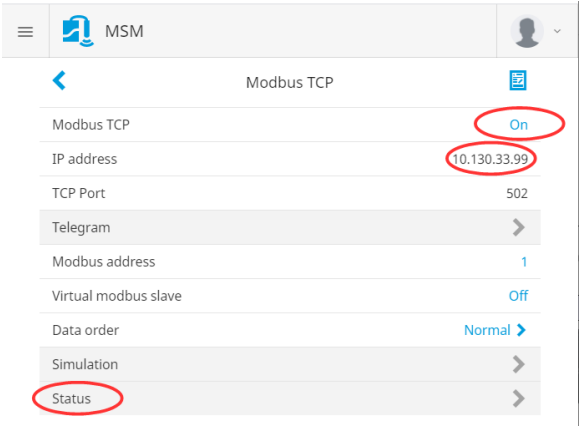
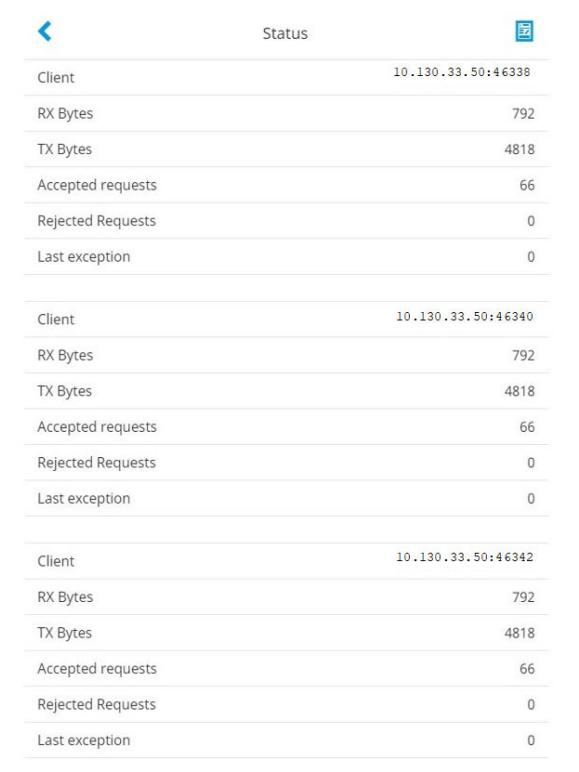
- Styrenheten har internetåtkomst via Wi-Fi- eller mobilanslutning.
- Du måste använda en bärbar dator för att konfigurera styrenhetens och routerns IP-adress.

Avsnitt 5 Konfigurera SC4200c-styrenhetens Modbus TCP-telegram

Starta Claros-programmet och följ den stegvisa guiden.

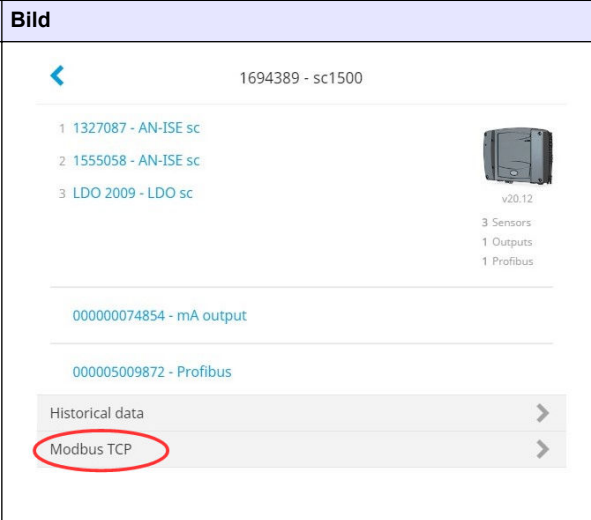
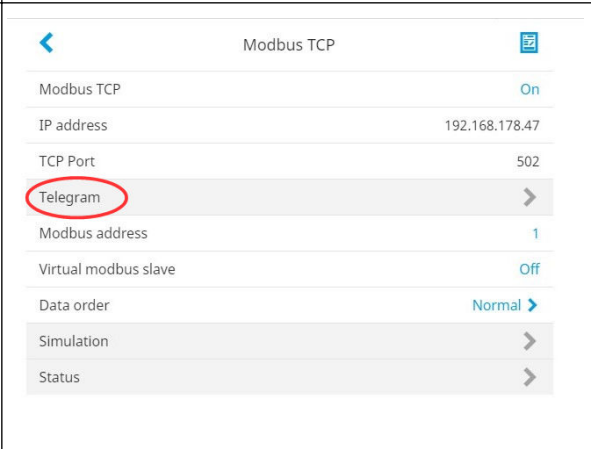
Steg	Beskrivning	Bild
1	Välj styrenhetsmenyn och tryck sedan på Modbus TCP .	
2	Välj Telegram för att ställa in Modbus TCP-telegram.	

Steg	Beskrivning	Bild
3	<p>Det telegram som visas är ett exempel på LDO sc-sensorn. Ställ in Heartbeat på heltal. Heartbeat är en räknare som visar värdets uppdatering i steg på en sekund.</p> <p>Observera: Innehållet i Modbus TCP-telegram är detsamma som Profibus-telegram.</p>	 <p>The image contains two screenshots from the MSM (Modbus Slave Manager) interface. The top screenshot shows the 'Telegram' configuration screen. It features a header with a menu icon, the MSM logo, and a user profile icon. Below the header, there is a back arrow, the title 'Telegram', and a '+ ADD SENSOR' button. A section labeled '1 devices' contains a list of devices with a dropdown arrow and an up arrow. The device 'LDO250000001 LDO sc' is selected and highlighted. At the bottom, there are 'CANCEL' and 'SAVE' buttons. The bottom screenshot shows the configuration for the selected sensor 'LDO250000001'. It has a header with the menu icon, MSM logo, and user profile icon. Below the header, there is a back arrow, the title 'LDO250000001', and a 'DELETE SENSOR' link. The configuration list shows '0 Dissolved oxygen [mg/L]' with a 'float' data type and '1 Heartbeat' with an 'integer' data type. There is also a '+ ADD NEW TAG' link. At the bottom, there are 'CANCEL' and 'OK' buttons.</p>

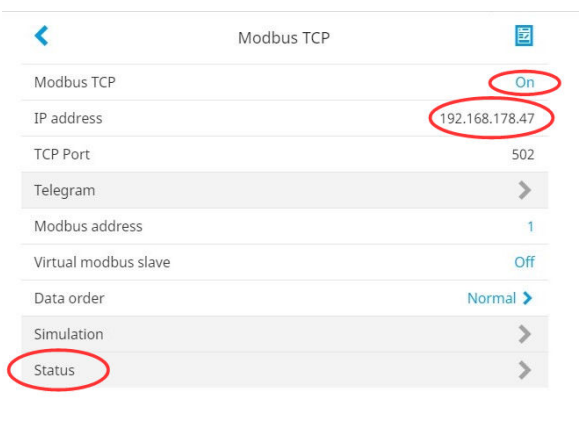
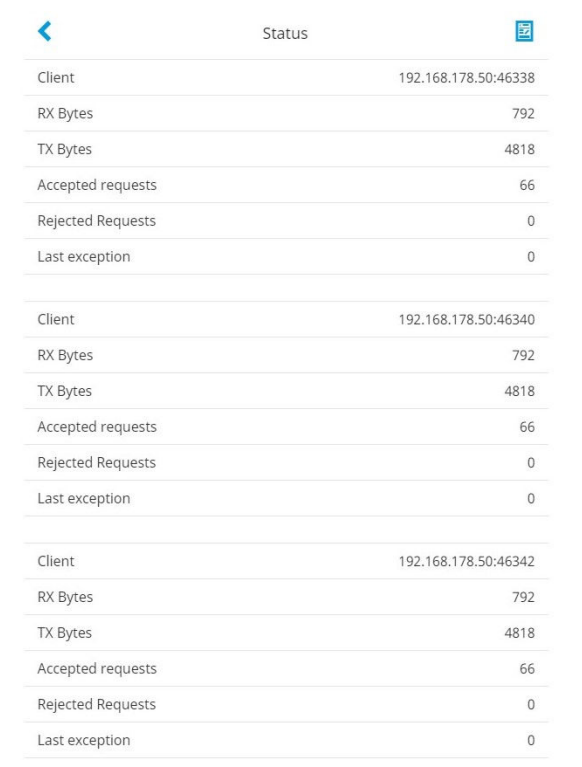
Steg	Beskrivning	Bild																								
4	<p>Modbus TCP-menyn visar styrenhetens IP-adress. 10.130.33.99 är den IP-adress som är inställd i styrenhetens servicemeny. Ställ in Modbus TCP på On (På) och tryck sedan på Status.</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. The 'On' toggle is circled in red. The IP address '10.130.33.99' is circled in red. The 'Status' option at the bottom is circled in red.</p>																								
5	<p>Statusmenyn visar Modbus TCP-statistik. 10.130.33.50 är RevPi-modulens IP-adress. RevPi har fem Modbus TCP-master.</p>	 <p>The screenshot shows the 'Status' screen with statistics for three Modbus TCP clients. Each client's IP address is 10.130.33.50.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>10.130.33.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>10.130.33.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	10.130.33.50:46338	792	4818	66	0	0	10.130.33.50:46340	792	4818	66	0	0	10.130.33.50:46342	792	4818	66	0	0
Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception																					
10.130.33.50:46338	792	4818	66	0	0																					
10.130.33.50:46340	792	4818	66	0	0																					
10.130.33.50:46342	792	4818	66	0	0																					

Avsnitt 6 Konfigurera SC1500-styrenhetens Modbus TCP-telegram

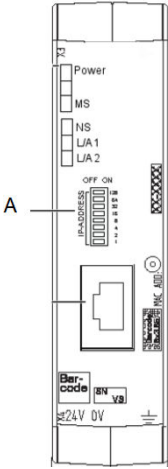
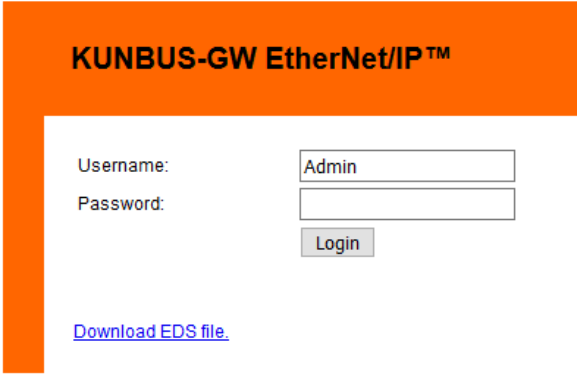
Starta Claros-programmet och följ den stegvisa guiden.

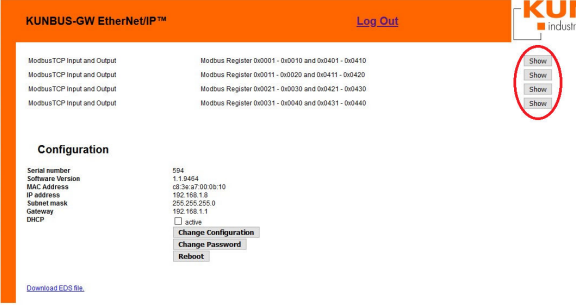
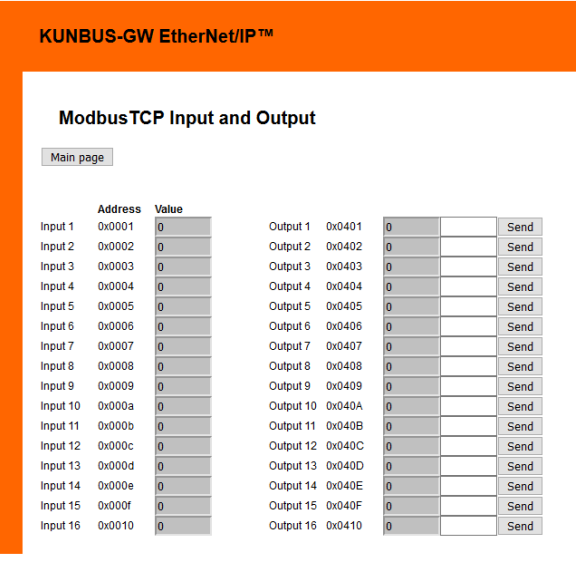
Steg	Beskrivning	Bild
1	Välj styrenhetsmenyn och tryck sedan på Modbus TCP .	
2	Välj Telegram för att ställa in Modbus TCP-telegram.	

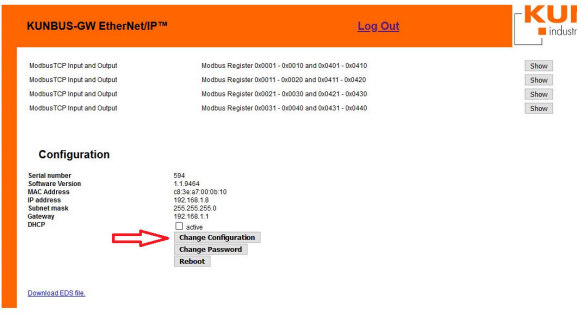
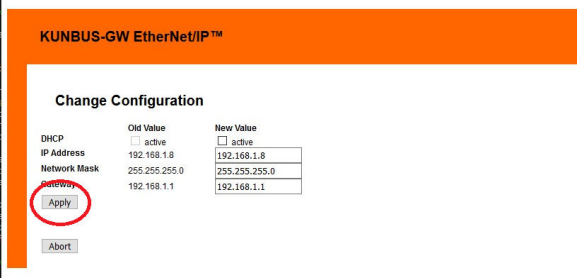
Steg	Beskrivning	Bild
3	<p>Det telegram som visas är ett exempel på LDO sc-sensorn. Ställ in Heartbeat på heltal. Heartbeat är en räknare som visar värdets uppdatering i steg på en sekund.</p> <p><i>Observera: Innehållet i Modbus TCP-telegram är detsamma som Profibus-telegram.</i></p>	<p>The image contains two screenshots of a configuration interface. The top screenshot is titled 'Telegram' and shows a list of devices with '1 devices' and a '+ ADD SENSOR' button. A device 'LDO 2009 LDO sc' is selected. At the bottom are 'CANCEL' and 'SAVE' buttons. The bottom screenshot is titled 'LDO 2009' and shows sensor details: '0 Dissolved oxygen [mg/L]' (float) and '1 Heartbeat' (integer). It includes a 'DELETE SENSOR' link, a '+ ADD NEW TAG' button, and 'CANCEL' and 'OK' buttons at the bottom.</p>

Steg	Beskrivning	Bild
4	<p>Modbus TCP-menyn visar styrenhetens IP-adress. 192.168.178.47 är den IP-adress som är inställd i styrenhetens servicemeny. Ställ in Modbus TCP på On (På) och tryck sedan på Status.</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a back arrow, the title 'Modbus TCP', and a help icon. Below are several settings: 'Modbus TCP' is turned 'On'; 'IP address' is '192.168.178.47'; 'TCP Port' is '502'; 'Telegram' has a right arrow; 'Modbus address' is '1'; 'Virtual modbus slave' is 'Off'; 'Data order' is 'Normal'; 'Simulation' has a right arrow; and 'Status' is highlighted with a red circle and has a right arrow.</p>
5	<p>Statusmenyn visar Modbus TCP-statistik. 192.168.178.50 är IP-adressen för RevPi-modulen. RevPi har sju Modbus TCP-master.</p>	 <p>The screenshot shows the 'Status' screen with three client entries. Each entry includes a back arrow, the title 'Status', a help icon, and a list of statistics: Client, RX Bytes, TX Bytes, Accepted requests, Rejected Requests, and Last exception. The first client is 192.168.178.50:46338, the second is 192.168.178.50:46340, and the third is 192.168.178.50:46342. The RX Bytes for all clients is 792, and TX Bytes is 4818. Accepted requests are 66, Rejected Requests are 0, and Last exception is 0 for all.</p>

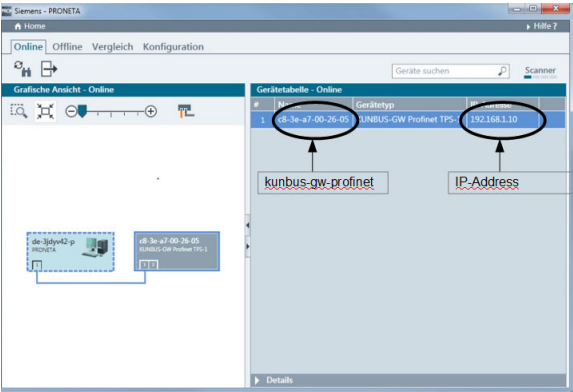
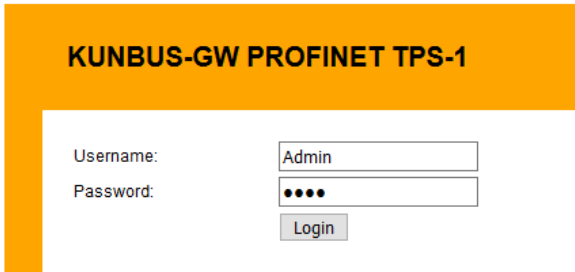
Avsnitt 7 Konfigurera Ethernet/IP-gatewayen

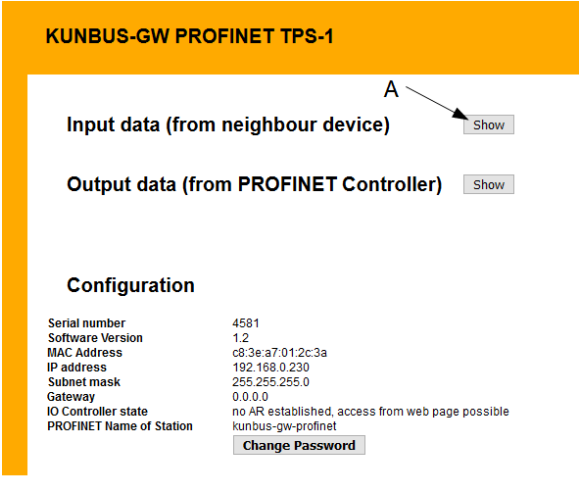
Steg	Beskrivning	Bild
1	<ul style="list-style-type: none"> Anslut Ethernet/IP-gatewayen till datorn via LAN till USB-adapterkabeln. Mer information finns i Inledning på sidan 383. Använd GATEWAY Ethernet/IP Slave-länken. Följ anvisningarna i tillverkarens användarhandbok <i>Gateway Component for Ethernet/IP</i>. Använd adressswitchen (A) med åtta stift för att ställa in värdidentifieraren på gatewayens binära format. <ul style="list-style-type: none"> Exempel: Ställ in värden på 8: 00010000 Gå till webbplatsen http://192.168.1.X (X = summan av alla switchar som är inställda på ON). 	
2	<p>Öppna webbläsaren och ange IP-adressen 192.168.1.X. Inloggningsuppgifter för första inloggning: Användarnamn: Admin Lösenord: 1701 Tryck på Login (Logga in).</p>	

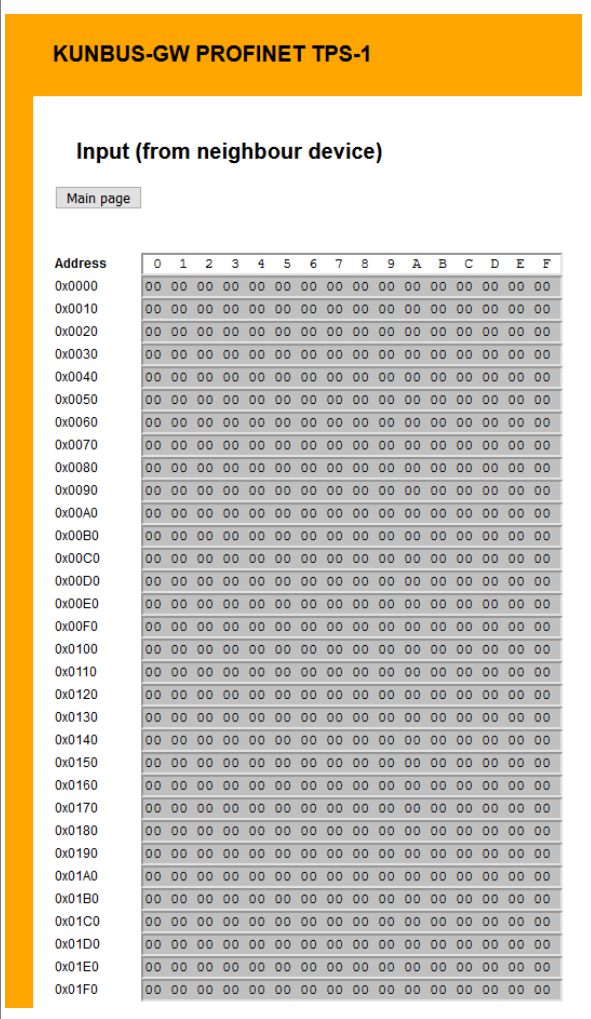
Steg	Beskrivning	Bild																																																																																					
3	<p>Styrenheten och Ethernet/IP-gatewayen överför dataområdet 0000–01BF, vilket är ett intervall på 448 byte eller 112 flyttal eller 224 heltal eller en blandning av dem, baserat på Modbus TCP:s telegram-typ i styrenheten.</p> <p>Observera: Endast det första dataområdet med 32 heltal visas. Visa alla data i PLC (224 heltal).</p> <p>Tryck på Show (Visa).</p>																																																																																						
4	<p>Det valda dataområdet visas.</p>	 <table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>Input 1 0x0001</td><td>0</td><td>Output 1 0x0401</td><td>0</td><td>Send</td></tr> <tr><td>Input 2 0x0002</td><td>0</td><td>Output 2 0x0402</td><td>0</td><td>Send</td></tr> <tr><td>Input 3 0x0003</td><td>0</td><td>Output 3 0x0403</td><td>0</td><td>Send</td></tr> <tr><td>Input 4 0x0004</td><td>0</td><td>Output 4 0x0404</td><td>0</td><td>Send</td></tr> <tr><td>Input 5 0x0005</td><td>0</td><td>Output 5 0x0405</td><td>0</td><td>Send</td></tr> <tr><td>Input 6 0x0006</td><td>0</td><td>Output 6 0x0406</td><td>0</td><td>Send</td></tr> <tr><td>Input 7 0x0007</td><td>0</td><td>Output 7 0x0407</td><td>0</td><td>Send</td></tr> <tr><td>Input 8 0x0008</td><td>0</td><td>Output 8 0x0408</td><td>0</td><td>Send</td></tr> <tr><td>Input 9 0x0009</td><td>0</td><td>Output 9 0x0409</td><td>0</td><td>Send</td></tr> <tr><td>Input 10 0x000A</td><td>0</td><td>Output 10 0x040A</td><td>0</td><td>Send</td></tr> <tr><td>Input 11 0x000B</td><td>0</td><td>Output 11 0x040B</td><td>0</td><td>Send</td></tr> <tr><td>Input 12 0x000C</td><td>0</td><td>Output 12 0x040C</td><td>0</td><td>Send</td></tr> <tr><td>Input 13 0x000D</td><td>0</td><td>Output 13 0x040D</td><td>0</td><td>Send</td></tr> <tr><td>Input 14 0x000E</td><td>0</td><td>Output 14 0x040E</td><td>0</td><td>Send</td></tr> <tr><td>Input 15 0x000F</td><td>0</td><td>Output 15 0x040F</td><td>0</td><td>Send</td></tr> <tr><td>Input 16 0x0010</td><td>0</td><td>Output 16 0x0410</td><td>0</td><td>Send</td></tr> </tbody> </table>	Address	Value				Input 1 0x0001	0	Output 1 0x0401	0	Send	Input 2 0x0002	0	Output 2 0x0402	0	Send	Input 3 0x0003	0	Output 3 0x0403	0	Send	Input 4 0x0004	0	Output 4 0x0404	0	Send	Input 5 0x0005	0	Output 5 0x0405	0	Send	Input 6 0x0006	0	Output 6 0x0406	0	Send	Input 7 0x0007	0	Output 7 0x0407	0	Send	Input 8 0x0008	0	Output 8 0x0408	0	Send	Input 9 0x0009	0	Output 9 0x0409	0	Send	Input 10 0x000A	0	Output 10 0x040A	0	Send	Input 11 0x000B	0	Output 11 0x040B	0	Send	Input 12 0x000C	0	Output 12 0x040C	0	Send	Input 13 0x000D	0	Output 13 0x040D	0	Send	Input 14 0x000E	0	Output 14 0x040E	0	Send	Input 15 0x000F	0	Output 15 0x040F	0	Send	Input 16 0x0010	0	Output 16 0x0410	0	Send
Address	Value																																																																																						
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Input 3 0x0003	0	Output 3 0x0403	0	Send																																																																																			
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Input 12 0x000C	0	Output 12 0x040C	0	Send																																																																																			
Input 13 0x000D	0	Output 13 0x040D	0	Send																																																																																			
Input 14 0x000E	0	Output 14 0x040E	0	Send																																																																																			
Input 15 0x000F	0	Output 15 0x040F	0	Send																																																																																			
Input 16 0x0010	0	Output 16 0x0410	0	Send																																																																																			

Steg	Beskrivning	Bild															
5	<p>Tryck på Change Configuration (Ändra konfiguration) för att ställa in IP-adressen.</p>	 <p>The screenshot shows the 'KUNBUS-GW EtherNet/IP™' web interface. At the top right is the 'Log Out' link and the 'KUI' logo. Below are sections for 'Modbus TCP Input and Output' with 'Show' buttons. The 'Configuration' section lists: <ul style="list-style-type: none"> Serial number: 994 Software Version: 1.1.0454 MAC Address: 08:3e:27:0b:2b:10 IP Address: 192.168.1.8 Subnet mask: 255.255.255.0 Gateway: 192.168.1.1 DHCP: <input type="checkbox"/> active A red arrow points to the 'Change Configuration' button. Other buttons include 'Change Password' and 'Reboot'. A 'Download FDS file' link is at the bottom left. </p>															
6	<p>Ändra IP-adressen i enlighet med gatewayadressen. Bekräfta genom att trycka på Apply (Verkställ). Ställ in alla DIP-switchar på OFF. Stäng av strömmen till gatewayen och starta sedan om. Nu används den nya IP-adressen.</p>	 <p>The screenshot shows the 'Change Configuration' dialog box. It has a title bar 'KUNBUS-GW EtherNet/IP™' and a 'Change Configuration' header. Below is a table comparing 'Old Value' and 'New Value': <table border="1"> <thead> <tr> <th></th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>DHCP</td> <td><input type="checkbox"/> active</td> <td><input type="checkbox"/> active</td> </tr> <tr> <td>IP Address</td> <td>192.168.1.8</td> <td>192.168.1.8</td> </tr> <tr> <td>Network Mask</td> <td>255.255.255.0</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>192.168.1.1</td> <td>192.168.1.1</td> </tr> </tbody> </table> At the bottom are 'Apply' and 'Abort' buttons. The 'Apply' button is circled in red. </p>		Old Value	New Value	DHCP	<input type="checkbox"/> active	<input type="checkbox"/> active	IP Address	192.168.1.8	192.168.1.8	Network Mask	255.255.255.0	255.255.255.0	Gateway	192.168.1.1	192.168.1.1
	Old Value	New Value															
DHCP	<input type="checkbox"/> active	<input type="checkbox"/> active															
IP Address	192.168.1.8	192.168.1.8															
Network Mask	255.255.255.0	255.255.255.0															
Gateway	192.168.1.1	192.168.1.1															

Avsnitt 8 Konfigurera Profinet-gatewayen

Steg	Beskrivning	Bild
1	<ul style="list-style-type: none">• Anslut Profinet-gatewayen till datorn via LAN till LAN-adaptern.• Mer information finns i Inledning på sidan 383. Använd GATEWAY Profinet IRT Slave-länken. Följ anvisningarna i tillverkarens användarhandbok <i>Gateway Component for PROFINET</i>.• Använd programmet PRONETA för att ange namnet som kunbus-gw-profinet.• Ange den IP-adress som används.	
2	<p>Öppna webbläsaren och ange IP-adressen. Inloggningsuppgifter för första inloggning:</p> <p>Användarnamn: Admin Lösenord: 1701</p> <p>Tryck på Login (Logga in).</p>	

Steg	Beskrivning	Bild																
3	Tryck på Show (Visa) (A) för att visa indata.	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
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4	<p>Visar alla data skickade från styrenheten till Profinet-gatewayen.</p> <p>Styrenheten och Profinet-gatewayen överför dataområdet 0000–01BF, vilket är ett intervall på 448 byte eller 112 flyttal eller 224 heltal eller en blandning av dem, baserat på Modbus TCP:s telegram-typ i styrenheten.</p>	 <p style="text-align: center;">KUNBUS-GW PROFINET TPS-1</p> <p style="text-align: center;">Input (from neighbour device)</p> <p style="text-align: center;">Main page</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Address</th> <th>0</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Avsnitt 9 Felsökning

9.1 Felsökning av RevPi

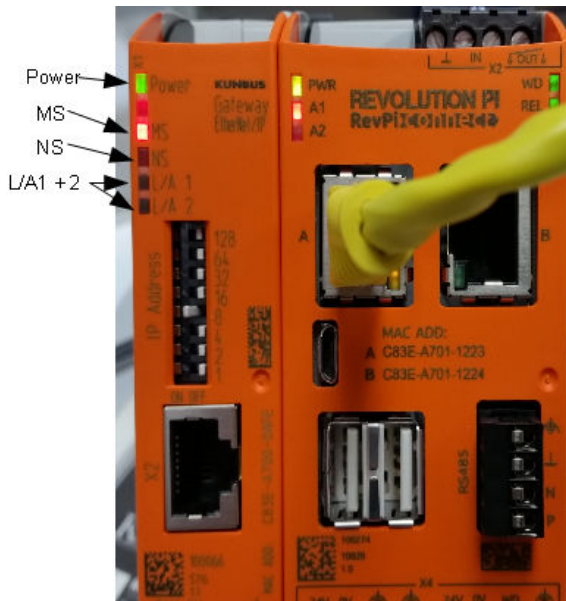
Figur 4 RevPi Basic-modul



Meddelande	Beskrivning	Lösning
Lampa A2 blinkar rött.	Kommunikationen har avbrutits.	<ul style="list-style-type: none">• Anslut nätverkskabeln (kabel eller router).• Ställ in Modbus-adressinställningen i Claros på 1.• Ställ in Modbus TCP i Claros-menyn på ON.
Lampa A3 blinkar långsamt rött.	Konfigurationen av Ethernet/IP- och Profinet-gateway har blandats ihop.	Se Starta USB-konfigurationen på sidan 385, steg 4 och välj rätt typ av gateway: <ul style="list-style-type: none">• en – Ethernet/IP• pn – Profinet

9.2 Felsökning av Ethernet/IP

Figur 5 Ethernet/IP-gateway

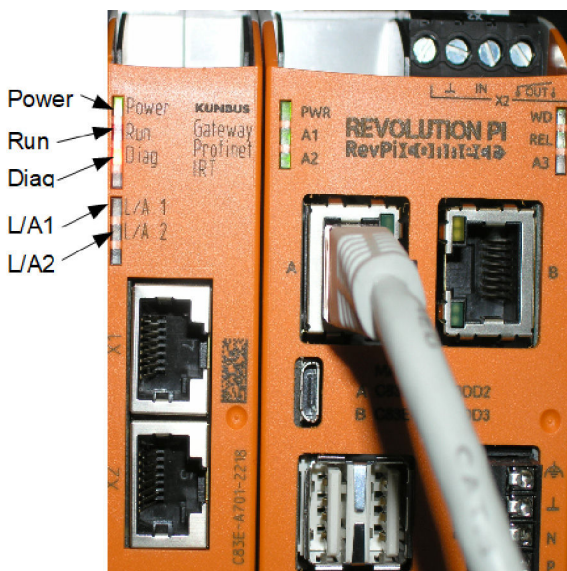


Meddelande	Beskrivning	Lösning
Strömlampan är släckt.	Ethernet/IP-gatewayen är avstängd.	Slå på strömmen.
Strömlampan blinkar grönt.	Startproceduren har inte slutförts.	Vänta några minuter.
Strömlampan blinkar rött.	Anger en varning.	Se efter om alla enheter är anslutna.
Strömlampan lyser rött.	Anger ett fel.	Ethernet/IP-gatewayen är defekt. Byt ut Ethernet/IP-gatewayen.
MS-lampan är släckt.	Ethernet/IP-gatewayen är avstängd.	Slå på strömmen.
MS-lampan blinkar grönt.	Konfigurationsproceduren har inte slutförts.	Vänta några minuter.
MS-lampan blinkar rött.	Anger ett konfigurationsfel.	Se Konfigurera Ethernet/IP-gatewayen på sidan 395 för att ta reda på hur man undersöker konfigurationen.
MS-lampan lyser rött.	Anger ett fel.	Ethernet/IP-gatewayen är defekt. Byt ut Ethernet/IP-gatewayen.
MS-lampan blinkar rött och grönt.	Självtestet har inte slutförts.	Vänta några minuter.

Meddelande	Beskrivning	Lösning
NS-lampan är släckt.	Ethernet/IP-gatewayen är avstängd eller också har den ingen IP-adress.	Slå på strömmen. Konfigurera IP-adressen.
NS-lampan blinkar grönt.	IP-adressen är inställd, men CIP-anlutningen har inte upprättats.	Vänta några minuter.
NS-lampan blinkar rött.	CIP-anlutningen har avbrutits.	Kontrollera om det förekommer en timeout.
NS-lampan lyser rött.	Den valda IP-adressen används av en annan enhet.	Ändra IP-adressen till en unik IP-adress.
Lampa L/A 1 eller 2 är släckt.	Det finns ingen anslutning till andra enheter.	Anslut till en enhet.
Lampa L/A 1 eller 2 blinkar grönt.	Inget datautbyte.	Vänta tills nästa datautbyte.

9.3 Felsökning av Profinet

Figur 6 Profinet-gateway



Meddelande	Beskrivning	Lösning
Strömlampan är släckt.	Profinet-gatewayen är avstängd.	Slå på strömmen.
Strömlampan blinkar grönt.	Startproceduren har inte slutförts.	Vänta några minuter.
Strömlampan blinkar rött.	Anger en varning.	Se efter om alla enheter är installerade.
Strömlampan lyser rött.	Anger ett fel.	Profinet-gatewayen är defekt. Byt ut Profinet-gatewayen.

Meddelande	Beskrivning	Lösning
Körningslampan är släckt.	Ingen nätverksanslutning.	Anslut till nätverket.
Körningslampan blinkar grönt.	Profinet-styrenheten är ansluten men det förekommer inget datautbyte.	Vänta tills nästa datautbyte.
Körningslampan blinkar långsamt grönt.	Aktiveras av ett verktyg för identifiering av gatewaykomponenten.	Vänta några minuter.
Diagnoslampan blinkar rött.	Aktiveras av ett verktyg för identifiering av gatewaykomponenten.	Vänta några minuter.
Diagnoslampan blinkar snabbt rött.	Ingen anslutning till styrenheten. Inget Profinet-namn inställt i modulen.	Se Konfigurera Profinet-gatewayen på sidan 398 för att ta reda på hur man ställer in namnet.
Diagnoslampan är röd.	En gatewayenhet rapporterar diagnosdata.	Se diagnostikrapporten.
Lampa L/A 1 eller 2 är släckt.	Ingen nätverksanslutning.	Anslut till nätverket.
Lampa L/A 1 eller 2 blinkar grönt.	Datautbyte pågår.	Vänta tills datautbytet har slutförts.

İçindekiler


- | | | | |
|---|---|---|--|
| 1 | Kullanım amacı sayfa 405 | 6 | SC1500 Denetleyici Modbus TCP telgraf kurulumu sayfa 414 |
| 2 | Giriş sayfa 405 | 7 | Ethernet/IP Ağ Geçidini yapılandırın sayfa 417 |
| 3 | USB yapılandırmasını başlatın sayfa 407 | 8 | Profinet Ağ Geçidini yapılandırın sayfa 420 |
| 4 | Kurulum örnekleri sayfa 408 | 9 | Sorun giderme sayfa 423 |
| 5 | SC4200c Denetleyici Modbus TCP telgraf kurulumu sayfa 411 | | |

Bölüm 1 Kullanım amacı

Bu kurulum talimatlarını, Claros ağında donanım bileşenleri olarak harici Ethernet/IP Ağ Geçidi veya Profinet Ağ Geçidi'ni entegre eden kişilerin kullanması amaçlanmıştır.

Bölüm 2 Giriş

Üretici, doğrudan, arızı ve sonuç olarak ortaya çıkan zararlar dahil olacak ancak bunlarla sınırlı olmayacak şekilde bu ürünün hatalı uygulanması veya kullanılmasından kaynaklanan hiçbir zarardan sorumlu değildir ve yürürlükteki yasaların izin verdiği ölçüde bu tür zararları reddeder. Kritik uygulama risklerini tanımlamak ve olası bir cihaz arızasında prosesleri koruyabilmek için uygun mekanizmaların bulunmasını sağlamak yalnızca kullanıcının sorumluluğundadır.

⚠ TEHLİKE	
	Elektrik çarpması nedeniyle ölüm tehlikesi. Elektrik bağlantısı yapmadan önce cihaza giden elektriği mutlaka kesin.

Gerekli araç gereçler:

- FAT32 olarak biçimlendirilmiş USB bellek
- Windows yüklü bilgisayar¹ 10
- Modül:
 - Ethernet/IP uygulaması için:
 - LXZ446.99.00001: AĞ GEÇİDİ IIoT RevPi Temel Modülü
 - LXZ446.99.00002: AĞ GEÇİDİ Ethernet/IP Slave
 - LXZ446.99.00003: PiBridge için Atlatici
 - Profinet uygulaması için:
 - LXZ446.99.00001: AĞ GEÇİDİ IIoT RevPi Temel Modülü
 - LXZ446.99.00007: AĞ GEÇİDİ Profinet IRT Slave
 - LXZ446.99.00003: PiBridge için Atlatici

RevPi, Slave ve PiBridge üç modülünü güce ve LAN'ye bağlayın.

Modüllerin üreticisinden daha fazla bilgi için aşağıdaki tabloda bulunan bağlantılara bakın.

Module (Modül)	Bağlantı
AĞ GEÇİDİ Profinet IRT Slave	https://www.kunbus.com/profinet-irt-gateway-module.html
AĞ GEÇİDİ Ethernet/IP Slave	https://www.kunbus.com/ethernet-ip-gateway-module.html

¹ Microsoft® Windows®, Microsoft Corporation'ın Amerika Birleşik Devletleri ve diğer ülkelerdeki tescilli ticari markasıdır.

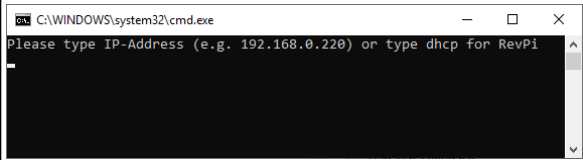
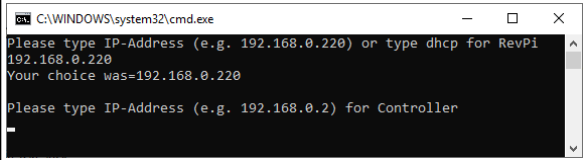
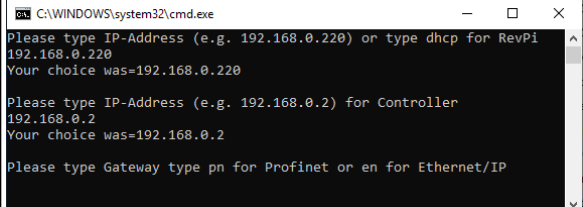
Module (Modül)	Bağlantı
GATEWAY IIoT RevPi Temel Modülü	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
RevPi Modüllerini bağlama yöntemi	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US
DIN rayına RevPi Modüllerini takma	https://revolution.kunbus.com/tutorials/din-rail-mounting/
Güç kaynağını bağlama	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

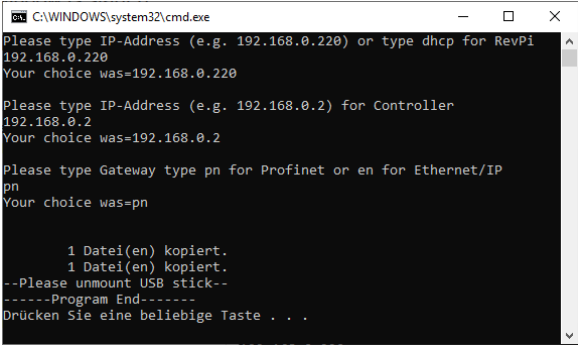


USB belleđi hazırlayın

1. Bilgisayara boş bir USB bellek takın.
2. Şuraya gidin: <https://www.hach.com> ve "usb ethernet/IP kurulumu" veya "usb profinet kurulumu" anahtar sözcüklerini arayın.
3. USB_ETHIP_PRNET.zip dosyasını indirin.
4. Sıkıştırılmış dosyayı USB belleđin kök dizinine açın.

Bölüm 3 USB yapılandırmasını başlatın

Hazırlanan USB belleđi bilgisayara takın.

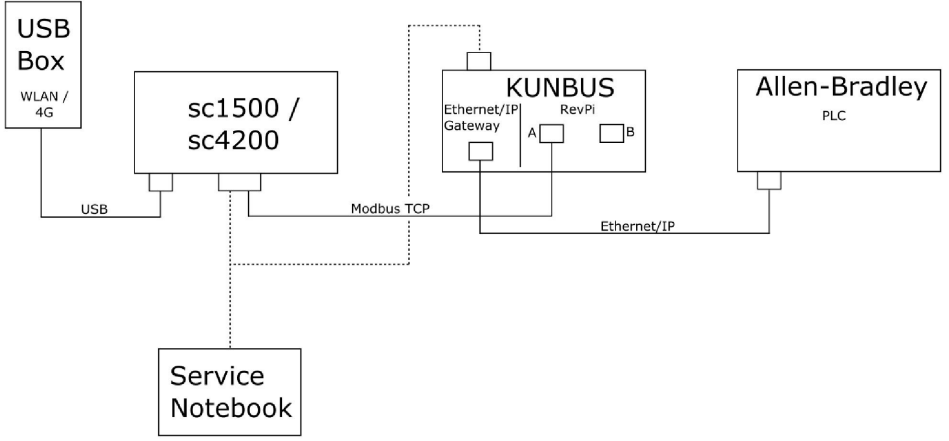
Adım	Açıklama	Resim
1	Start_usb_config.bat dosyasını başlatın. Terminal penceresi açılır. Adım adım kılavuzu takip edin.	
2	RevPi modülünün IP adresini girin.	
3	SC denetleyicisinin IP adresini girin. Ağ ön ekinin RevPi modülü ile aynı olduğundan emin olun (ör. 192.168.0). Ana bilgisayar tanımlayıcısının RevPi modülünden farklı olduğundan emin olun (ör. 220 RevPi, 2 Denetleyici).	
4	Ağ geçidi türünü girin: <ul style="list-style-type: none">• pn—Profinet• en—Ethernet/IP	

Adım	Açıklama	Resim
5	Ayarları Enter tuşuyla onaylayın. USB belleği çıkarın.	
6	USB belleği RevPi Modülünün sol USB soketine takın.	
7	LED açıklaması: <ul style="list-style-type: none"> A1/A2 turuncu: RevPi kurulumu başlar. A1 kırmızı, A2 kapalı: RevPi USB belleği takın. A1 yeşil, A2 kapalı: USB bellek başarıyla takıldı. A1 kapalı, A2 yeşil: RevPi verileri USB bellekten indirir/USB belleğe yükler. A3 kırmızı: RevPi yeniden başlatılır. A3 kırmızı olduğunda USB belleği çıkarın.	
8	RevPi ayarları tamamlanmıştır.	

Bölüm 4 Kurulum örnekleri

Şekil 1, iki farklı LAN bağlantısı bulunan kurulumu gösterir.

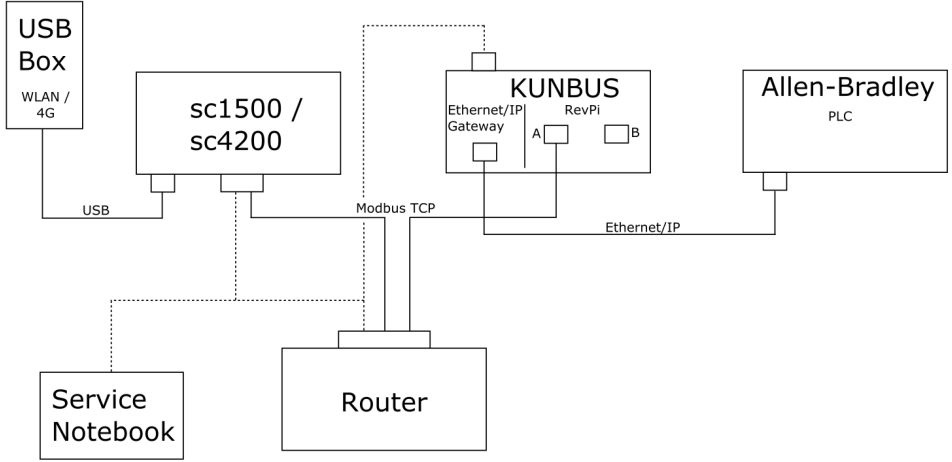
Şekil 1 Örnek 1



- Modbus TCP ve Ethernet/IP, iki farklı LAN bağlantısı kullanır.
- Tüm cihazların statik bir IP adresi vardır.
- Denetleyicide Wi-Fi veya hücresel bağlantı ile internet erişimi bulunur.
- Denetleyicinin IP adreslerini ve Ethernet/IP ağ geçidini ayarlamak için bir dizüstü bilgisayar gereklidir.

Şekil 2, Modbus TCP bağlantısı için bir yönlendirici bulunan kurulumu gösterir.

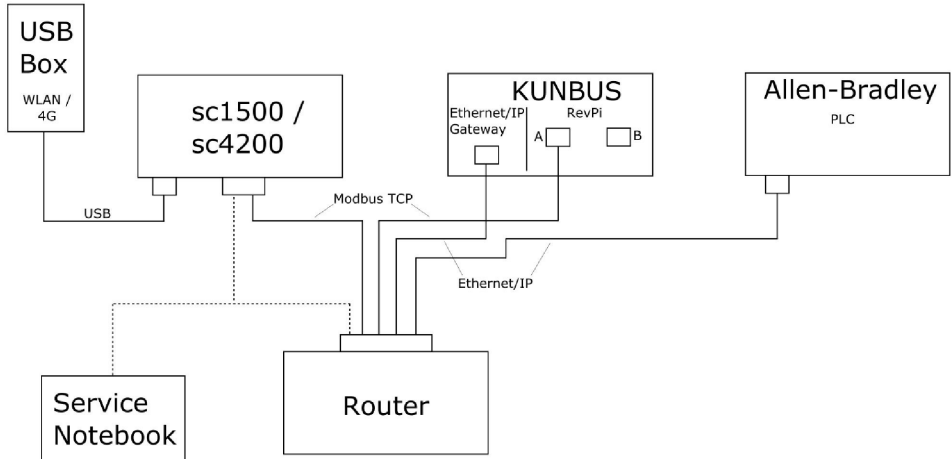
Şekil 2 Örnek 2



- Modbus TCP, bir yönlendiriciye bağlıdır.
- Tüm cihazların statik bir IP adresi vardır veya yönlendirici DHCP üzerinden IP adresini ayarlar.
Not: DHCP kullanılıyorsa yönlendiricinin her zaman aynı cihazlar (MAC) için aynı IP adresini kullandığından emin olun.
- Denetleyicide Wi-Fi veya hücresel bağlantı ile internet erişimi bulunur.
- Denetleyicinin IP adresini, yönlendirici ayarlarını ve Ethernet/IP ağ geçidini ayarlamak için bir dizüstü bilgisayar gereklidir.

Şekil 3, tüm cihazlar için bir yönlendirici veya anahtar bulunan kurulumu gösterir.

Şekil 3 Örnek 3

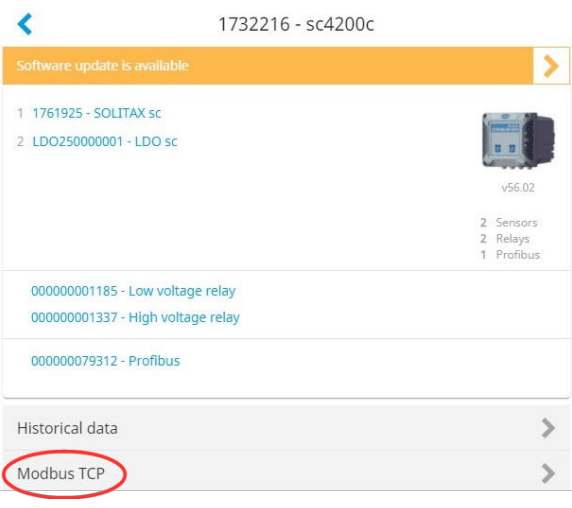
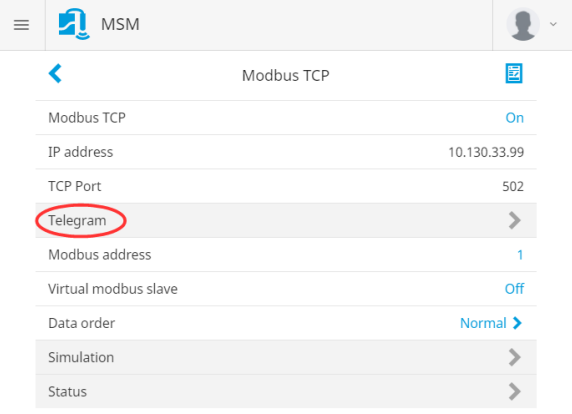


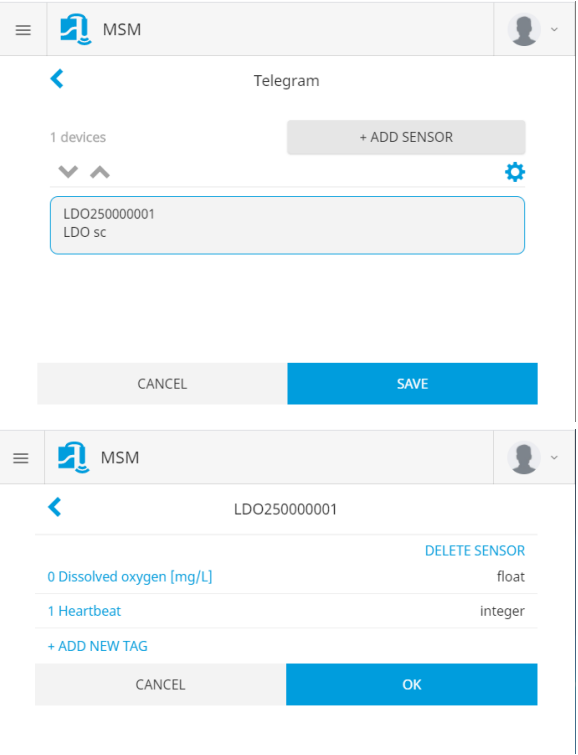
- Tüm cihazlar bir yönlendirici veya anahtar ile bağlıdır.

- Tüm cihazların statik bir IP adresi vardır veya yönlendirici ya da anahtar, DHCP üzerinden IP adresini ayarlar.
Not: DHCP kullanılıyorsa yönlendiricinin her zaman aynı cihazlar (MAC) için aynı IP adresini kullandığından emin olun.
- Denetleyicide Wi-Fi veya hücresel bağlantı ile internet erişimi bulunur.
- Denetleyicinin IP adresini ayarlamak ve yönlendirici ayarlarını yapmak için bir dizüstü bilgisayar gereklidir.

Bölüm 5 SC4200c Denetleyici Modbus TCP telgraf kurulumu

Claros uygulamasını başlatın ve adım adım kılavuzu takip edin.

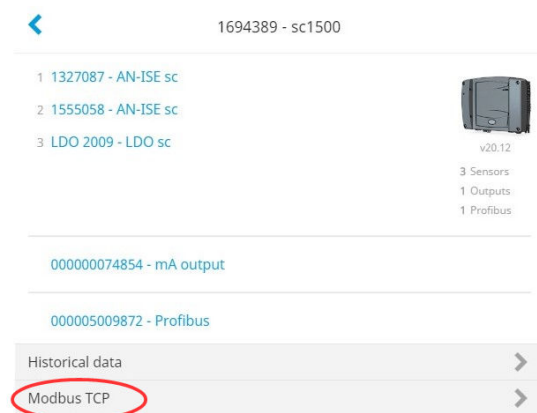
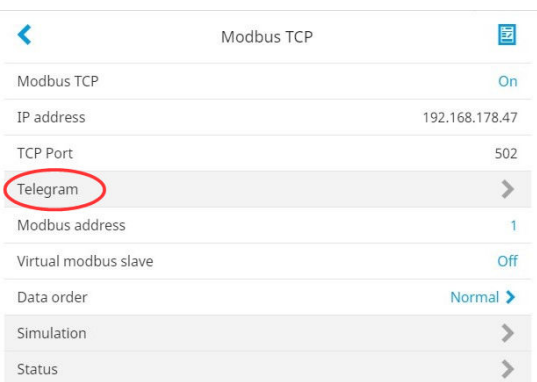
Adım	Açıklama	Resim
1	Denetleyici menüsünü seçin ve ardından Modbus TCP düğmesine basın.	 <p>The screenshot shows the device's main menu for '1732216 - sc4200c'. At the top, there is a blue back arrow and the device ID. Below that is an orange banner that says 'Software update is available'. The main menu lists several options: '1 1761925 - SOLITAX sc', '2 LDO250000001 - LDO sc', '00000001185 - Low voltage relay', '00000001337 - High voltage relay', and '000000079312 - Profibus'. At the bottom, there is a 'Historical data' section with a right arrow, and a 'Modbus TCP' option which is circled in red.</p>
2	Modbus TCP telgrafını ayarlamak için Telegram (Telgraf) ögesini seçin.	 <p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a blue back arrow, the 'Modbus TCP' title, and a blue icon. Below that is a 'Modbus TCP' toggle switch set to 'On'. The screen lists several configuration options: 'IP address' (10.130.33.99), 'TCP Port' (502), 'Telegram' (circled in red), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal), 'Simulation' (with a right arrow), and 'Status' (with a right arrow).</p>

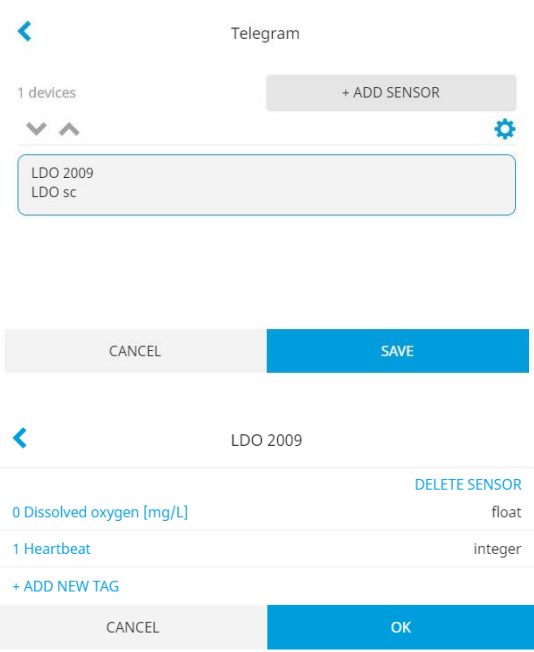
Adım	Açıklama	Resim
3	<p>Gösterilen telgraf, LDO sc sensörü için bir örnektir. Sinyali tam sayı olarak ayarlayın. Sinyal, değerin bir saniyelik artışlarla güncellenmesini gösteren bir sayacıdır.</p> <p>Not: Modbus TCP telgrafının içeriği Profibus telgrafıyla aynıdır.</p>	

Adım	Açıklama	Resim																												
4	<p>Modbus TCP menüsünde denetleyicinin IP adresi gösterilir. 10.130.33.99, denetleyici hizmet menüsünde ayarlanan IP adresidir.</p> <p>Modbus TCP'yi On (Açık) olarak ayarlayın ve ardından Status (Durum) düğmesine basın.</p>																													
5	<p>Status (Durum) menüsü Modbus TCP istatistiklerini gösterir. 10.130.33.50, RevPi Modülünün IP adresidir. RevPi'de 5 adet Modbus TCP master bulunur.</p>	<table border="1"> <thead> <tr> <th>Client</th> <th>IP Address</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>Client</td> <td>10.130.33.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>Client</td> <td>10.130.33.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>Client</td> <td>10.130.33.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	IP Address	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	Client	10.130.33.50:46338	792	4818	66	0	0	Client	10.130.33.50:46340	792	4818	66	0	0	Client	10.130.33.50:46342	792	4818	66	0	0
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Client	10.130.33.50:46342	792	4818	66	0	0																								

Bölüm 6 SC1500 Denetleyici Modbus TCP telgraf kurulumu

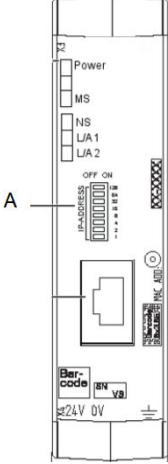
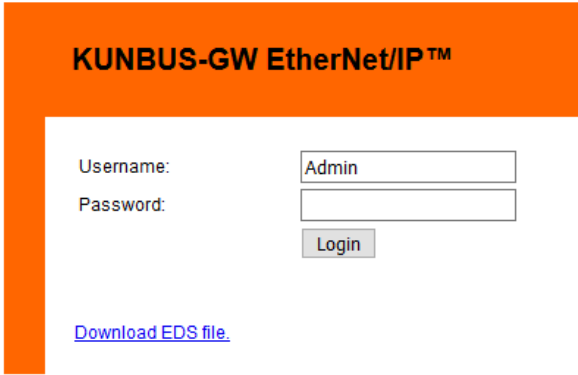
Claros uygulamasını başlatın ve adım adım kılavuzu takip edin.

Adım	Açıklama	Resim
1	Denetleyici menüsünü seçin ve ardından Modbus TCP düğmesine basın.	 <p>The screenshot shows the main menu of the SC1500 control panel. The title is '1694389 - sc1500'. There are three menu items: '1 1327087 - AN-ISE sc', '2 1555058 - AN-ISE sc', and '3 LDO 2009 - LDO sc'. To the right, there is a small image of the control panel and the text 'v20.12', '3 Sensors', '1 Outputs', and '1 Profibus'. Below the menu items, there are two options: '00000074854 - mA output' and '00005009872 - Profibus'. At the bottom, there are two buttons: 'Historical data' and 'Modbus TCP'. The 'Modbus TCP' button is circled in red.</p>
2	Modbus TCP telgrafını ayarlamak için Telegram (Telgraf) ögesini seçin.	 <p>The screenshot shows the 'Modbus TCP' configuration screen. The title is 'Modbus TCP'. There is a toggle switch for 'Modbus TCP' which is turned 'On'. Below it, there are several configuration options: 'IP address' (192.168.178.47), 'TCP Port' (502), 'Telegram' (circled in red), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal), 'Simulation', and 'Status'. Each option has a right-pointing arrow next to it.</p>

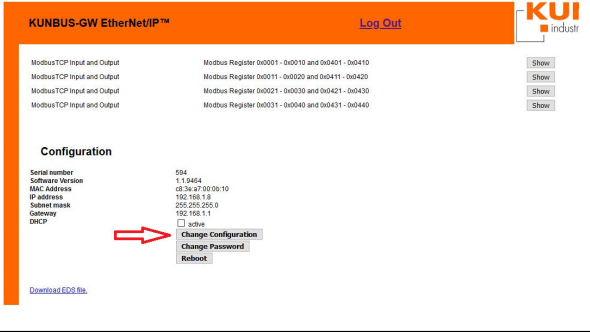
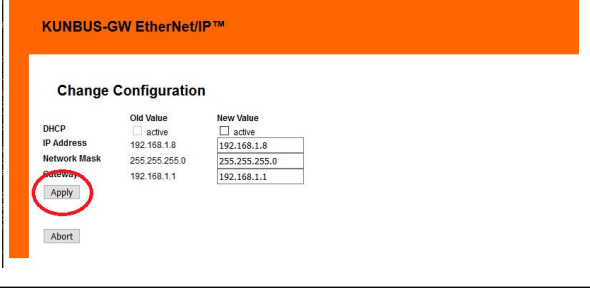
Adım	Açıklama	Resim
3	<p>Gösterilen telgraf, LDO sc sensörü için bir örnektir. Sinyali tam sayı olarak ayarlayın. Sinyal, değerin bir saniyelik artışlarla güncellenmesini gösteren bir sayaçtır.</p> <p>Not: Modbus TCP telgrafının içeriği Profibus telgrafıyla aynıdır.</p>	

Adım	Açıklama	Resim																								
4	<p>Modbus TCP menüsünde denetleyicinin IP adresi gösterilir. 192.168.178.47, denetleyici hizmet menüsünde ayarlanan IP adresidir.</p> <p>Modbus TCP'yi On (Açık) olarak ayarlayın ve ardından Status (Durum) düğmesine basın.</p>	<p>The screenshot shows the 'Modbus TCP' configuration interface. The 'Modbus TCP' toggle is set to 'On'. The 'IP address' field is set to '192.168.178.47'. The 'Status' button is highlighted with a red circle.</p>																								
5	<p>Status (Durum) menüsü Modbus TCP istatistiklerini gösterir. 192.168.178.50, RevPi Modülünün IP adresidir. RevPi'de 7 adet Modbus TCP master bulunur.</p>	<p>The screenshot shows the 'Status' screen with three client entries. Each entry displays the following statistics:</p> <table border="1"> <thead> <tr> <th>Client</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>192.168.178.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>192.168.178.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	192.168.178.50:46338	792	4818	66	0	0	192.168.178.50:46340	792	4818	66	0	0	192.168.178.50:46342	792	4818	66	0	0
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Bölüm 7 Ethernet/IP Ağ Geçidini yapılandırın

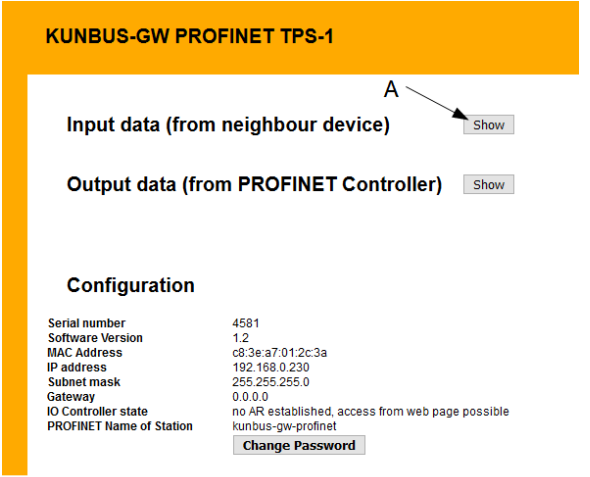
Adım	Açıklama	Resim
1	<ul style="list-style-type: none">Ethernet/IP Ağ Geçidini LAN-USB bağdaştırıcı kablosuyla bilgisayara bağlayın.Giriş sayfa 405 bölümüne bakın. AĞ GEÇİDİ Ethernet/IP Slave bağlantısını kullanın. Üreticinin <i>Ethernet/IP için ağ geçidi bileşeni</i> için kullanım kılavuzundaki talimatları uygulayın.Ana bilgisayar tanımlayıcısını Ağ Geçidinin ikili biçimine ayarlamak için 8 pinli adres anahtarını (A) kullanın.<ul style="list-style-type: none">Örnek: Ana bilgisayarı 8: 00010000 olarak ayarlayınweb sitesini açın (X= ON (AÇIK) olarak ayarlanmış tüm anahtarların toplamı).	
2	<p>Tarayıcıyı açın ve 192.168.1.X IP adresini girin. İlk oturum için oturum açma verileri:</p> <p>User (Kullanıcı): Admin Password (Parola): 1701</p> <p>Giriş ögesine basın.</p>	

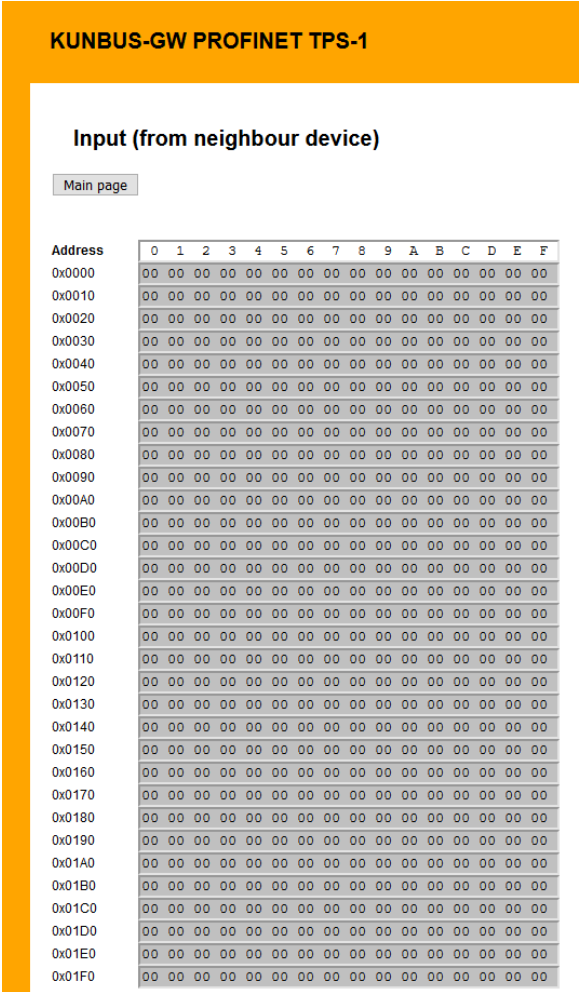
Adım	Açıklama	Resim																																																																																																																					
3	<p>Denetleyici ve Ethernet/IP Ağ Geçidi, denetleyicideki Modbus TCP'nin telgraf türüne göre 0000 - 01BF veri alanını aktarır; bu da 448 bayt veya 112 kayan sayı ya da 224 tam sayı aralığı veya bunların karışımıdır.</p> <p>Not: <i>Yalnızca 32 tam sayısına ilk veri aralığı gösterilir. PLC'deki tüm verileri görüntüleyin (224 tam sayı).</i></p> <p>Show (Göster) düğmesine basın.</p>																																																																																																																						
4	<p>Seçilen veri alanı gösterilir.</p>	<table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th>Address</th> <th>Value</th> <th>Send</th> </tr> </thead> <tbody> <tr><td>Input 1</td><td>0x0001</td><td>0</td><td>Output 1</td><td>0x0401</td><td>0</td><td>Send</td></tr> <tr><td>Input 2</td><td>0x0002</td><td>0</td><td>Output 2</td><td>0x0402</td><td>0</td><td>Send</td></tr> <tr><td>Input 3</td><td>0x0003</td><td>0</td><td>Output 3</td><td>0x0403</td><td>0</td><td>Send</td></tr> <tr><td>Input 4</td><td>0x0004</td><td>0</td><td>Output 4</td><td>0x0404</td><td>0</td><td>Send</td></tr> <tr><td>Input 5</td><td>0x0005</td><td>0</td><td>Output 5</td><td>0x0405</td><td>0</td><td>Send</td></tr> <tr><td>Input 6</td><td>0x0006</td><td>0</td><td>Output 6</td><td>0x0406</td><td>0</td><td>Send</td></tr> <tr><td>Input 7</td><td>0x0007</td><td>0</td><td>Output 7</td><td>0x0407</td><td>0</td><td>Send</td></tr> <tr><td>Input 8</td><td>0x0008</td><td>0</td><td>Output 8</td><td>0x0408</td><td>0</td><td>Send</td></tr> <tr><td>Input 9</td><td>0x0009</td><td>0</td><td>Output 9</td><td>0x0409</td><td>0</td><td>Send</td></tr> <tr><td>Input 10</td><td>0x000A</td><td>0</td><td>Output 10</td><td>0x040A</td><td>0</td><td>Send</td></tr> <tr><td>Input 11</td><td>0x000b</td><td>0</td><td>Output 11</td><td>0x040B</td><td>0</td><td>Send</td></tr> <tr><td>Input 12</td><td>0x000c</td><td>0</td><td>Output 12</td><td>0x040C</td><td>0</td><td>Send</td></tr> <tr><td>Input 13</td><td>0x000d</td><td>0</td><td>Output 13</td><td>0x040D</td><td>0</td><td>Send</td></tr> <tr><td>Input 14</td><td>0x000e</td><td>0</td><td>Output 14</td><td>0x040E</td><td>0</td><td>Send</td></tr> <tr><td>Input 15</td><td>0x000f</td><td>0</td><td>Output 15</td><td>0x040F</td><td>0</td><td>Send</td></tr> <tr><td>Input 16</td><td>0x0010</td><td>0</td><td>Output 16</td><td>0x0410</td><td>0</td><td>Send</td></tr> </tbody> </table>	Address	Value	Address	Value	Send	Input 1	0x0001	0	Output 1	0x0401	0	Send	Input 2	0x0002	0	Output 2	0x0402	0	Send	Input 3	0x0003	0	Output 3	0x0403	0	Send	Input 4	0x0004	0	Output 4	0x0404	0	Send	Input 5	0x0005	0	Output 5	0x0405	0	Send	Input 6	0x0006	0	Output 6	0x0406	0	Send	Input 7	0x0007	0	Output 7	0x0407	0	Send	Input 8	0x0008	0	Output 8	0x0408	0	Send	Input 9	0x0009	0	Output 9	0x0409	0	Send	Input 10	0x000A	0	Output 10	0x040A	0	Send	Input 11	0x000b	0	Output 11	0x040B	0	Send	Input 12	0x000c	0	Output 12	0x040C	0	Send	Input 13	0x000d	0	Output 13	0x040D	0	Send	Input 14	0x000e	0	Output 14	0x040E	0	Send	Input 15	0x000f	0	Output 15	0x040F	0	Send	Input 16	0x0010	0	Output 16	0x0410	0	Send
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Input 16	0x0010	0	Output 16	0x0410	0	Send																																																																																																																	

Adım	Açıklama	Resim
5	IP adresini ayarlamak için Change Configuration (Yapılandırmayı Değiştir) düğmesine basın.	 <p>The screenshot shows the KUNBUS-GW EtherNet/IP™ web interface. At the top right, there is a 'Log Out' button and the KUI logo. Below the header, there are two columns of Modbus registers with 'Show' buttons next to them. The main section is titled 'Configuration' and lists several parameters: Serial number (994), Software Version (1.1.0454), MAC Address (08:3e:27:0b:2b:10), IP Address (192.168.1.8), Subnet mask (255.255.255.0), Gateway (192.168.1.1), and DHCP (checked). A red arrow points to the 'Change Configuration' button, which is highlighted in a grey box. Other buttons like 'Change Password' and 'Reboot' are also visible.</p>
6	IP adresini, ağ geçidi adresine göre değiştirin. Onaylamak için OK (Tamam) ögesine basın. Tüm dip anahtarlarını kapalı konuma getirin. Ağ geçidinin gücünü kapalı olarak ayarlayın, ardından yeniden başlatın. Artık yeni IP Adresi kullanılmaktadır.	 <p>The screenshot shows the 'Change Configuration' page in the KUNBUS-GW EtherNet/IP™ web interface. It features a table with 'Old Value' and 'New Value' columns. The 'DHCP' checkbox is checked. The 'IP Address' is 192.168.1.8, 'Network Mask' is 255.255.255.0, and 'Gateway' is 192.168.1.1. The 'Apply' button is circled in red, and the 'Abort' button is visible below it.</p>

Bölüm 8 Profinet Ağ Geçidini yapılandırın

Adım	Açıklama	Resim
1	<ul style="list-style-type: none">• Profinet Ağ Geçidini LAN-LAN bağdaştırıcısıyla bilgisayara bağlayın.• Giriş sayfa 405 bölümüne bakın. AĞ GEÇİDİ Profinet IRT Slave bağlantısını kullanın. Üreticinin <i>PROFINET İçin Ağ Geçidi Bileşeni</i> kullanım kılavuzundaki talimatları uygulayın.• Adı kunbus-gw-profinet olarak ayarlamak için PRONETA yazılımını kullanın.• Kullanılan IP adresini girin.	
2	<p>Tarayıcıyı açın ve IP adresini girin. İlk oturum için oturum açma verileri: User (Kullanıcı): Admin Password (Parola): 1701 Giriş ögesine basın.</p>	

Adım	Açıklama	Resim
3	Girdi verilerini göstermek için Show (Göster) (A) düğmesine basın.	

Adım	Açıklama	Resim																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
4	<p>Denetleyiciden Profinet Ağ Geçidine gönderilen tüm verileri gösterir.</p> <p>Denetleyici ve Profinet Ağ Geçidi, denetleyicideki Modbus TCP'nin telgraf türüne göre 0000 - 01BF veri alanını aktarır; bu da 448 bayt veya 112 kayan sayı ya da 224 tam sayı aralığı veya bunların karışımıdır.</p>	 <p style="text-align: center;">KUNBUS-GW PROFINET TPS-1</p> <p style="text-align: center;">Input (from neighbour device)</p> <p style="text-align: center;">Main page</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Address</th> <th>0</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th> </tr> </thead> <tbody> <tr><td>0x0000</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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Bölüm 9 Sorun giderme

9.1 RevPi Sorunlarını Giderme

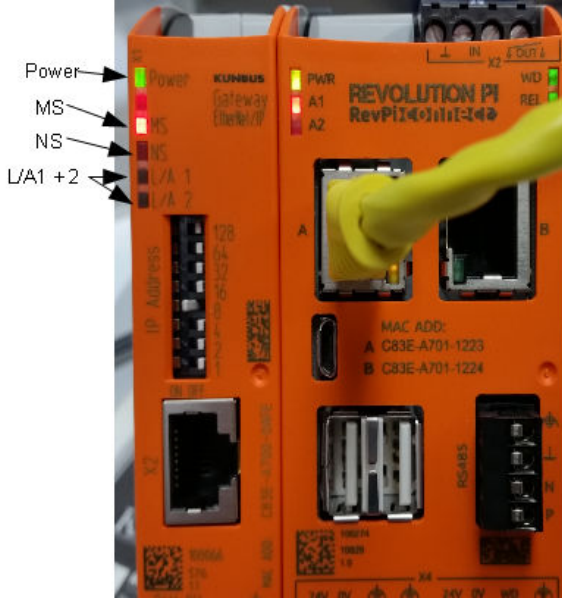
Şekil 4 RevPi Temel modülü



Mesaj	Açıklama	Çözüm
LED A2 kırmızı renkte yanıp söner.	İletişim durdu.	<ul style="list-style-type: none">Ağ kablosunu (kablo veya yönlendirici) bağlayın.Modbus adres ayarını Claros'ta 1 olarak ayarlayın.Modbus TCP'yi Claros menüsünde açık olarak ayarlayın.
LED A3 yavaşça kırmızı renkte yanıp söner.	Ethernet/IP ve Profinet Ağ Geçidi'nin yapılandırması karıştırılır.	Bkz. USB yapılandırmasını başlatın sayfa 407, 4. adıma bakın ve doğru Ağ Geçidi türünü seçin: <ul style="list-style-type: none">en – Ethernet/IPpn – Profinet

9.2 Ethernet/IP Sorunlarını Giderme

Şekil 5 Ethernet/IP Ağ Geçidi

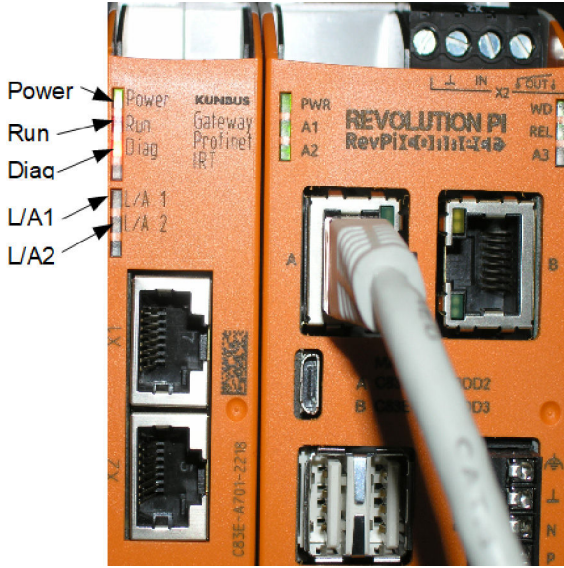


Mesaj	Açıklama	Çözüm
Güç LED'i kapalı.	Ethernet/IP ağ geçidi kapalı olarak ayarlanmıştır.	Gücü açık konuma getirin.
Güç LED'i yeşil renkte yanıp söner.	Başlatma prosedürü tamamlanmadı.	Birkaç dakika bekleyin.
Güç LED'i kırmızı renkte yanıp söner.	Bir uyarı gösterir.	Tüm cihazların bağlı olup olmadığını kontrol edin.
Güç LED'i kırmızıdır.	Bir hata gösterir.	Ethernet/IP ağ geçidi arızalıdır. Ethernet/IP ağ geçidini değiştirin.
MS LED'i kapalı.	Ethernet/IP ağ geçidi kapalı olarak ayarlanmıştır.	Gücü açık olarak ayarlayın.
MS LED'i yeşil renkte yanıp söner.	Yapılandırma prosedürü tamamlanmadı.	Birkaç dakika bekleyin.
MS LED'i kırmızı renkte yanıp söner.	Bir yapılandırma hatası gösterir.	Yapılandırmayı incelemek için bkz. Ethernet/IP Ağ Geçidini yapılandırın sayfa 417.
MS LED'i kırmızıdır.	Bir hata gösterir.	Ethernet/IP ağ geçidi arızalıdır. Ethernet/IP ağ geçidini değiştirin.
MS LED'i kırmızı ve yeşil renkte yanıp söner.	Kendi kendine test tamamlanmadı.	Birkaç dakika bekleyin.

Mesaj	Açıklama	Çözüm
NS LED'i kapalı.	Ethernet/IP ağ geçidi kapalı olarak ayarlanmış veya IP adresi yok.	Gücü açık olarak ayarlayın. IP adresini ayarlayın.
NS LED'i yeşil renkte yanıp söner.	IP adresi ayarlanmış ancak CIP bağlantısı kurulmamış.	Birkaç dakika bekleyin.
NS LED'i kırmızı renkte yanıp söner.	CIP bağlantısı durduruldu.	Zaman aşımı olup olmadığını inceleyin.
NS LED'i kırmızıdır.	Seçilen IP adresi başka bir cihaz tarafından kullanılıyor.	IP adresini benzersiz bir IP adresiyle değiştirin.
L/A 1 veya 2 LED'i kapalı.	Diğer cihazlarla bağlantı yok.	Bir cihaza bağlanın.
L/A 1 veya 2 LED'i yeşil renkte yanıp söner.	Veri alışverişi yok.	Bir sonraki veri değişimine kadar bekleyin.

9.3 Profinet Sorunlarını Giderme

Şekil 6 PROFINET Ağ Geçidi



Mesaj	Açıklama	Çözüm
Güç LED'i kapalı.	Profinet ağ geçidi kapalı.	Gücü açık olarak ayarlayın.
Güç LED'i yeşil renkte yanıp söner.	Başlatma prosedürü tamamlanmadı.	Birkaç dakika bekleyin.
Güç LED'i kırmızı renkte yanıp söner.	Bir uyarı gösterir.	Tüm cihazların kurulu olup olmadığını kontrol edin.
Güç LED'i kırmızıdır.	Bir hata gösterir.	Profinet ağ geçidi arızalıdır. Profinet ağ geçidini değiştirin.

Mesaj	Açıklama	Çözüm
Çalıştırma LED'i kapalı.	Ağ bağlantısı yok.	Ağa bağlanın.
Çalıştırma LED'i yeşil renkte yanıp söner.	PROFINET denetleyicisi bağlı ancak veri alışverişi yok.	Bir sonraki veri değişimine kadar bekleyin.
Çalıştırma LED'i yavaşça yeşil renkte yanıp söner.	Ağ geçidi bileşeninin tanımlanması için araç tarafından tetiklenir.	Birkaç dakika bekleyin.
DIAG LED'i kırmızı renkte yanıp sönüyor.	Ağ geçidi bileşeninin tanımlanması için araç tarafından tetiklenir.	Birkaç dakika bekleyin.
DIAG LED'i hızlı hızlı kırmızı yanıp sönüyor.	Denetleyiciye bağlantı yok. Modülde ayarlı Profinet adı yok.	Adı ayarlamak için bkz. Profinet Ağ Geçidini yapılandırın sayfa 420.
DIAG LED'i kırmızıdır.	Bir Ağ Geçidi cihazı, tanılama verilerini bildirir.	Tanılama raporuna bakın.
L/A 1 veya 2 LED'i kapalı.	Ağ bağlantısı yok.	Ağa bağlanın.
L/A 1 veya 2 LED'i yeşil renkte yanıp söner.	Veri alışverişi.	Veri alışverişi tamamlanana kadar bekleyin.

目录

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2 介绍 第 427 页	7 配置以太网/IP 网关 第 439 页
3 启动 USB 配置 第 429 页	8 配置 Profinet 网关 第 442 页
4 安装示例 第 430 页	9 故障排除 第 445 页
5 设置 SC4200c 控制器 Modbus TCP 报文 第 433 页	

第 1 节 应用场合

这些设置说明的目标用户是负责将外部以太网/IP 网关或 Profinet 网关作为硬件组件集成到 Claros 网络中的人员。

第 2 节 介绍

对于误用或滥用本产品造成的任何损坏，包括但不限于直接、附带和从属损害，制造商概不负责，并且在适用法律允许的最大范围内拒绝承认这些损害。用户独自负责识别重大应用风险并安装适当的保护装置，以在设备可能出现故障时保护工艺流程。

⚠ 危险



电击致命危险。进行电气连接前，务必断开仪器的电源。

需准备的物品：

- 已格式化为 FAT32 的 U 盘
- 装有 Windows 的电脑¹ 10
- 模块：
 - 对于以太网/IP 实施：
 - LXZ446.99.00001: GATEWAY IloT RevPi 基本模块
 - LXZ446.99.00002: GATEWAY 以太网/IP Slave
 - LXZ446.99.00003: PiBridge 跳线
 - 对于 Profinet 实施：
 - LXZ446.99.00001: GATEWAY IloT RevPi 基本模块
 - LXZ446.99.00007: GATEWAY Profinet IRT Slave
 - LXZ446.99.00003: PiBridge 跳线

将 RevPi、Slave 和 PiBridge 三个模块连接到电源和 LAN。

有关模块制造商提供的更多信息，请参阅下表中的链接。

模块	链接
GATEWAY Profinet IRT Slave	https://www.kunbus.com/profinet-irt-gateway-module.html
GATEWAY 以太网/IP Slave	https://www.kunbus.com/ethernet-ip-gateway-module.html
GATEWAY IloT RevPi 基本模块	https://revolution.kunbus.com/revpi-connect/?noredirect=en_US
如何连接 RevPi 模块	https://revolution.kunbus.com/tutorials/connecting-revolution-pi-modules/?noredirect=en_US

¹ Microsoft® Windows® 是 Microsoft Corporation 在美国和其他国家/地区的注册商标。

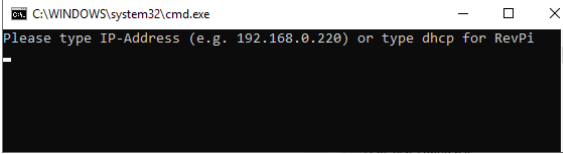
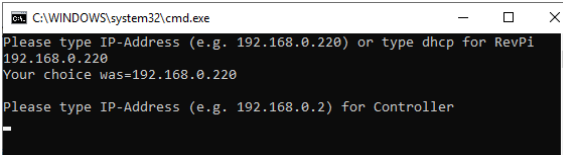
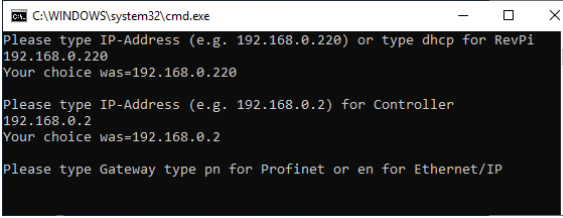
模块	链接
如何在 DIN 导轨上安装 RevPi 模块	https://revolution.kunbus.com/tutorials/din-rail-mounting/
如何连接电源	https://revolution.kunbus.com/tutorials/overview-revpi-core/connecting-power-supply/

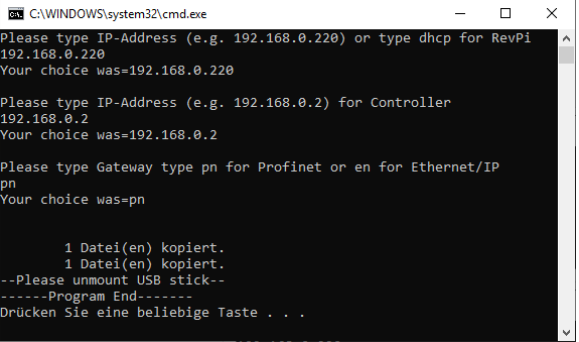

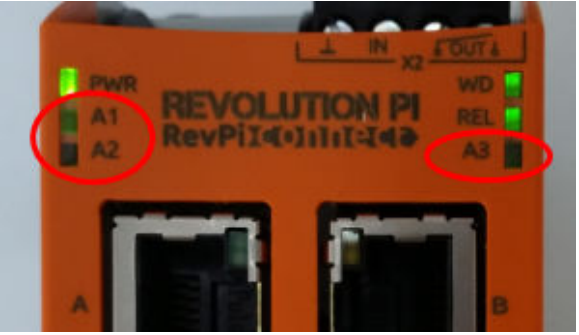
准备 U 盘

1. 将空 U 盘插入电脑。
2. 转到 <https://www.hach.com> 并搜索关键字“USB Ethernet/IP installation”（USB 以太网/IP 安装）或“USB Profinet installation”（USB Profinet 安装）。
3. 下载 USB_ETHIP_PRNET.zip。
4. 将文件解压至 U 盘的根目录。

第 3 节 启动 USB 配置

将准备好的 U 盘插入电脑。

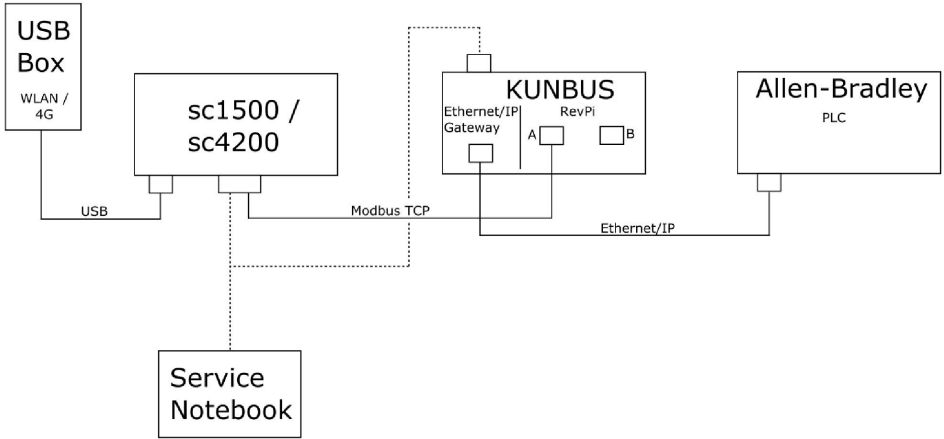
步骤	说明	图片
1	启动 start_usb_config.bat。 此时将显示一个终端窗口。按照分步指南进行操作。	
2	输入 RevPi 模块的 IP 地址。	 <pre>C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi 192.168.0.220 Your choice was=192.168.0.220</pre>
3	输入 SC 控制器的 IP 地址。 确保网络前缀与 RevPi 模块的前缀相同（例如 192.168.0）。 确保主机标识符不同于 RevPi 模块（例如，220 RevPi, 2 Controller）。	 <pre>C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi 192.168.0.220 Your choice was=192.168.0.220 Please type IP-Address (e.g. 192.168.0.2) for Controller 192.168.0.2 Your choice was=192.168.0.2</pre>
4	输入网关类型： <ul style="list-style-type: none">• pn - Profinet• en - 以太网/IP	 <pre>C:\WINDOWS\system32\cmd.exe Please type IP-Address (e.g. 192.168.0.220) or type dhcp for RevPi 192.168.0.220 Your choice was=192.168.0.220 Please type IP-Address (e.g. 192.168.0.2) for Controller 192.168.0.2 Your choice was=192.168.0.2 Please type Gateway type pn for Profinet or en for Ethernet/IP</pre>

步骤	说明	图片
5	按 Enter（确认）键确认设置。取出 U 盘。	
6	将 U 盘插入 RevPi 模块的左侧 USB 接口。	
7	<p>指示灯说明：</p> <ul style="list-style-type: none"> • A1/A2 橙灯：RevPi 安装开始。 • A1 红灯，A2 熄灭：RevPi 插入 U 盘。 • A1 绿灯，A2 熄灭：U 盘已成功插入。 • A1 熄灭，A2 绿灯：RevPi 从 U 盘下载/上传数据。 • A3 红灯：RevPi 重新启动。 <p>当 A3 亮起红灯时，取出 U 盘。</p>	
8	RevPi 设置已完成。	

第 4 节 安装示例

图 1 显示了具有两个不同 LAN 连接的安装系统。

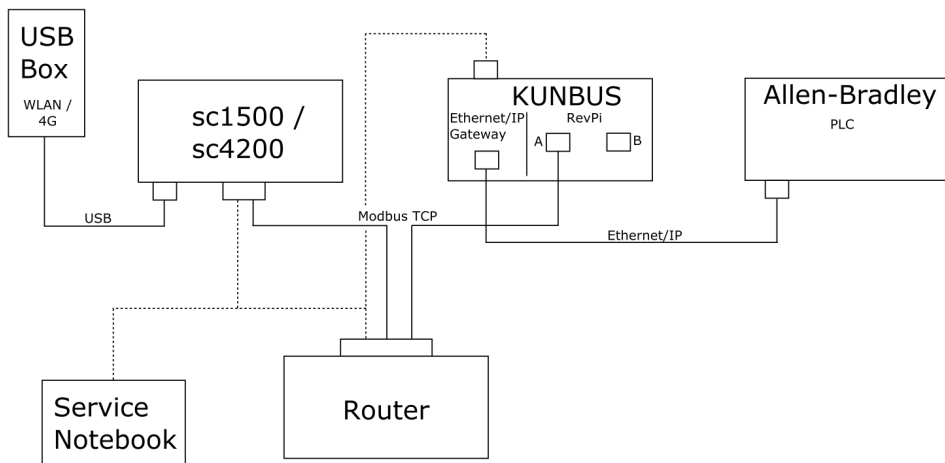
图 1 例 1



- Modbus TCP 和以太网/IP 使用两种不同的 LAN 连接。
- 所有设备都有一个静态 IP 地址。
- 控制器可通过 WiFi 或蜂窝连接访问互联网。
- 要设置控制器的 IP 地址和以太网/IP 网关，需要用到笔记本电脑。

图 2 显示了通过路由器进行 Modbus TCP 连接的安装系统。

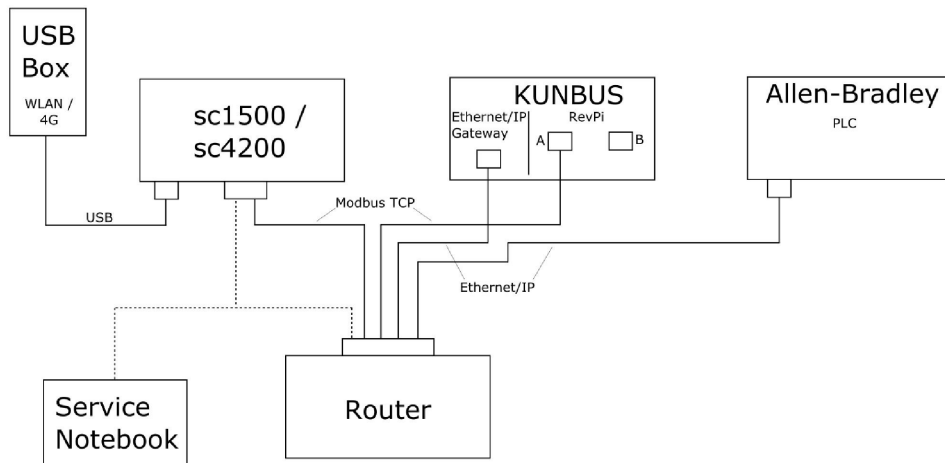
图 2 例 2



- Modbus TCP 连接到路由器。
- 所有设备都有一个静态 IP 地址，或者由路由器通过 DHCP 设置 IP 地址。
注： 如果使用 DHCP 设置地址，确保路由器始终将相同的 IP 地址用于为相同的设备 (MAC)。
- 控制器可通过 WiFi 或蜂窝连接访问互联网。
- 要设置控制器的 IP 地址、以太网/IP 网关和路由器设置，需要用到笔记本电脑。

图 3 显示了一个通过一个路由器或交换机连接所有设备的安装系统。

图 3 例 3



- 所有设备都通过路由器或交换机连接。
- 所有设备都有一个静态 IP 地址，或者由路由器或交换机通过 DHCP 设置 IP 地址。
注： 如果使用 DHCP 设置地址，确保路由器始终将相同的 IP 地址用于为相同的设备 (MAC)。

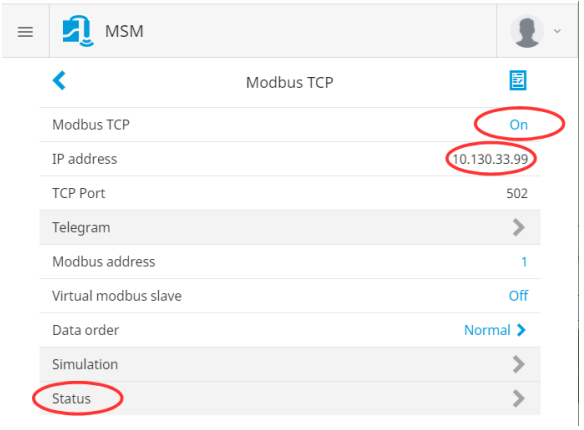

- 控制器可通过 WiFi 或蜂窝连接访问互联网。
- 要设置控制器的 IP 地址和路由器设置，需要用到笔记本电脑。

第 5 节 设置 SC4200c 控制器 Modbus TCP 报文

启动 Claros 应用程序并按照分步指南进行操作。

步骤	说明	图片
1	选择控制器菜单，然后按 Modbus TCP 。	 <p>The screenshot shows the main interface for the SC4200c controller. At the top, it displays '1732216 - sc4200c'. Below this, there is a yellow banner indicating a software update is available. A list of components is shown, including '1 1761925 - SOLITAX sc' and '2 LDO250000001 - LDO sc'. A small image of the controller is shown with the version 'v56.02' and a list of features: '2 Sensors', '2 Relays', and '1 Profibus'. Below the component list, there are three entries: '000000001185 - Low voltage relay', '000000001337 - High voltage relay', and '000000079312 - Profibus'. At the bottom, there are two menu items: 'Historical data' and 'Modbus TCP', both with right-pointing arrows. The 'Modbus TCP' item is circled in red.</p>
2	选择 Telegram (报文) 以设置 Modbus TCP 报文。	 <p>The screenshot shows the 'Modbus TCP' configuration screen. At the top, there is a header with a menu icon, the 'MSM' logo, and a user profile icon. Below the header, the title 'Modbus TCP' is displayed. The configuration options are listed as follows: 'Modbus TCP' (On), 'IP address' (10.130.33.99), 'TCP Port' (502), 'Telegram' (circled in red), 'Modbus address' (1), 'Virtual modbus slave' (Off), 'Data order' (Normal), 'Simulation', and 'Status'. Each option has a right-pointing arrow next to it.</p>

步骤	说明	图片
3	<p>所示报文以 LDO sc 传感器为例进行说明。</p> <p>将 Heartbeat（心跳）设置为整数。“心跳”是一种计数器，以一秒为增量显示值的更新。</p> <p>注： <i>Modbus TCP</i> 报文的内容与 <i>Profibus</i> 报文相同。</p>	

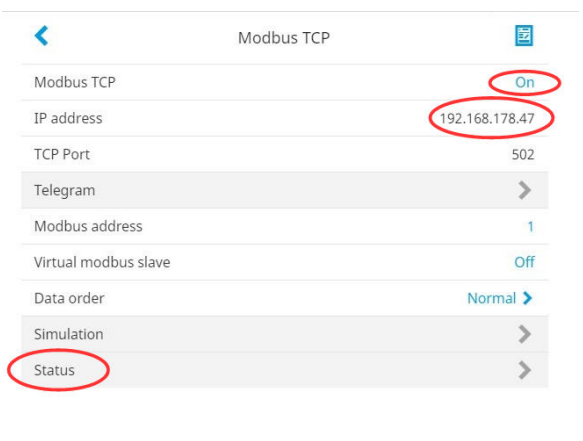
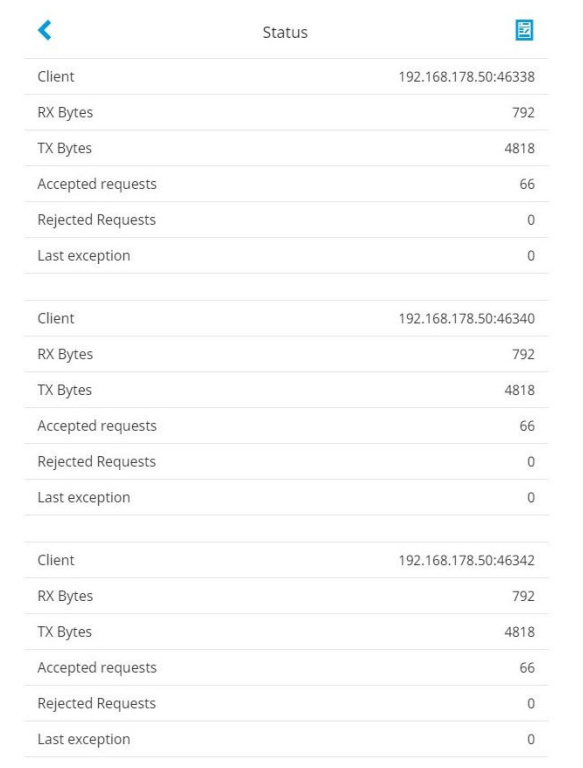
步骤	说明	图片																												
4	<p>Modbus TCP 菜单显示控制器的 IP 地址。 10.130.33.99 是在控制器服务菜单中设置的 IP 地址。 将 Modbus TCP 设置为 On (开)，然后按 Status (状态)。</p>	 <p>The screenshot shows the MSM Modbus TCP configuration interface. The 'On' toggle is circled in red. The IP address '10.130.33.99' is circled in red. The 'Status' menu item at the bottom is also circled in red.</p>																												
5	<p>Status (状态) 菜单显示 Modbus TCP 统计信息。 10.130.33.50 是 RevPi 模块的 IP 地址。RevPi 有 5 个 Modbus TCP 主机。</p>	 <p>The screenshot shows the MSM Status screen displaying Modbus TCP statistics for three clients. The IP address 10.130.33.50 is highlighted in the first two client entries.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>IP Address</th> <th>RX Bytes</th> <th>TX Bytes</th> <th>Accepted requests</th> <th>Rejected Requests</th> <th>Last exception</th> </tr> </thead> <tbody> <tr> <td>Client</td> <td>10.130.33.50:46338</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>Client</td> <td>10.130.33.50:46340</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> <tr> <td>Client</td> <td>10.130.33.50:46342</td> <td>792</td> <td>4818</td> <td>66</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	IP Address	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception	Client	10.130.33.50:46338	792	4818	66	0	0	Client	10.130.33.50:46340	792	4818	66	0	0	Client	10.130.33.50:46342	792	4818	66	0	0
Client	IP Address	RX Bytes	TX Bytes	Accepted requests	Rejected Requests	Last exception																								
Client	10.130.33.50:46338	792	4818	66	0	0																								
Client	10.130.33.50:46340	792	4818	66	0	0																								
Client	10.130.33.50:46342	792	4818	66	0	0																								

第 6 节 设置 SC1500 控制器 Modbus TCP 报文

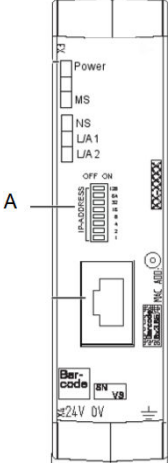
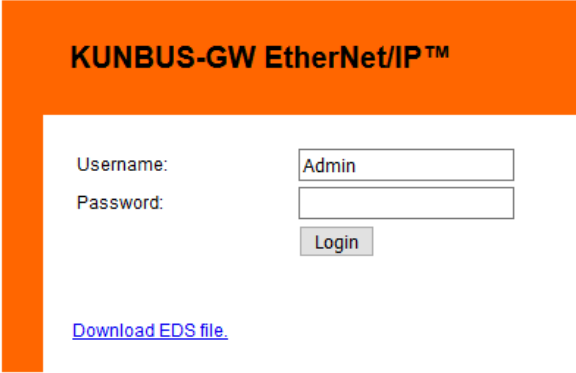
启动 Claros 应用程序并按照分步指南进行操作。

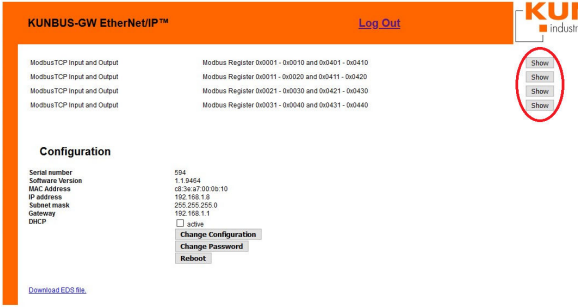
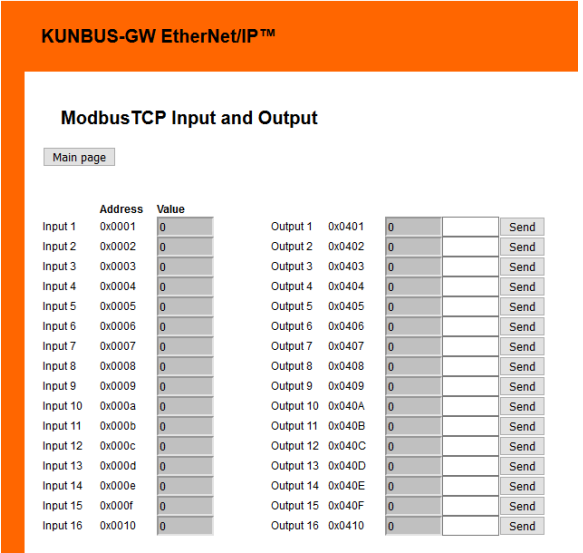
步骤	说明	图片
1	选择控制器菜单，然后按 Modbus TCP 。	
2	选择 Telegram （报文）以设置 Modbus TCP 报文。	

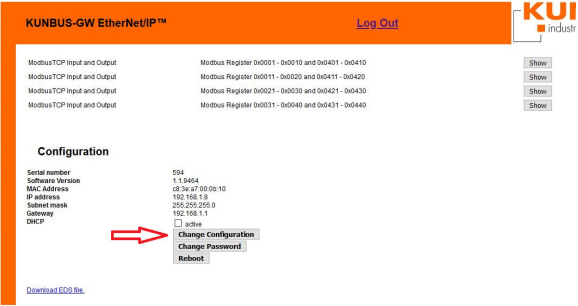
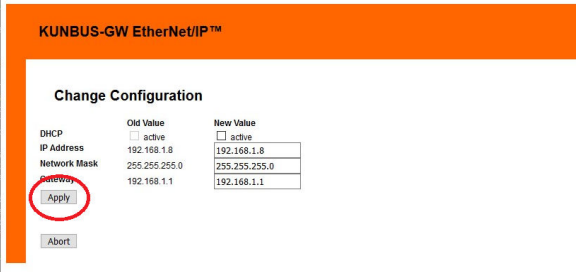
步骤	说明	图片
3	<p>所示报文以 LDO sc 传感器为例进行说明。</p> <p>将 Heartbeat (心跳) 设置为整数。“心跳”是一种计数器，以一秒为增量显示值的更新。</p> <p>注： <i>Modbus TCP 报文的内容与 Profibus 报文相同。</i></p>	<p>The image contains two screenshots of a configuration interface. The top screenshot is titled "Telegram" and shows a list of "1 devices" with a "+ ADD SENSOR" button. A selected device is shown in a box with the labels "LDO 2009" and "LDO sc". Below the list are "CANCEL" and "SAVE" buttons. The bottom screenshot is titled "LDO 2009" and shows two tags: "0 Dissolved oxygen [mg/L]" with a "float" data type and "1 Heartbeat" with an "integer" data type. There is a "DELETE SENSOR" link at the top right and a "+ ADD NEW TAG" link at the bottom left. "CANCEL" and "OK" buttons are at the bottom.</p>

步骤	说明	图片																								
4	<p>Modbus TCP 菜单显示控制器的 IP 地址。 192.168.178.47 是在控制器服务菜单中设置的 IP 地址。 将 Modbus TCP 设置为 On (开)，然后按 Status (状态)。</p>	 <p>The screenshot shows the 'Modbus TCP' configuration screen. The 'Modbus TCP' toggle is set to 'On'. The 'IP address' is '192.168.178.47'. The 'TCP Port' is '502'. The 'Telegram' menu is expanded, showing 'Modbus address' as '1', 'Virtual modbus slave' as 'Off', 'Data order' as 'Normal', and 'Simulation' as a menu item. The 'Status' menu item at the bottom is also visible.</p>																								
5	<p>Status (状态) 菜单显示 Modbus TCP 统计信息。 192.168.178.50 是 RevPi 模块的 IP 地址。RevPi 有 7 个 Modbus TCP 主机。</p>	 <p>The screenshot shows the 'Status' menu with statistics for three clients. Each client's statistics are listed in a table format.</p> <table border="1"> <thead> <tr> <th>Client</th> <th>192.168.178.50:46338</th> <th>192.168.178.50:46340</th> <th>192.168.178.50:46342</th> </tr> </thead> <tbody> <tr> <td>RX Bytes</td> <td>792</td> <td>792</td> <td>792</td> </tr> <tr> <td>TX Bytes</td> <td>4818</td> <td>4818</td> <td>4818</td> </tr> <tr> <td>Accepted requests</td> <td>66</td> <td>66</td> <td>66</td> </tr> <tr> <td>Rejected Requests</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Last exception</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Client	192.168.178.50:46338	192.168.178.50:46340	192.168.178.50:46342	RX Bytes	792	792	792	TX Bytes	4818	4818	4818	Accepted requests	66	66	66	Rejected Requests	0	0	0	Last exception	0	0	0
Client	192.168.178.50:46338	192.168.178.50:46340	192.168.178.50:46342																							
RX Bytes	792	792	792																							
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Rejected Requests	0	0	0																							
Last exception	0	0	0																							

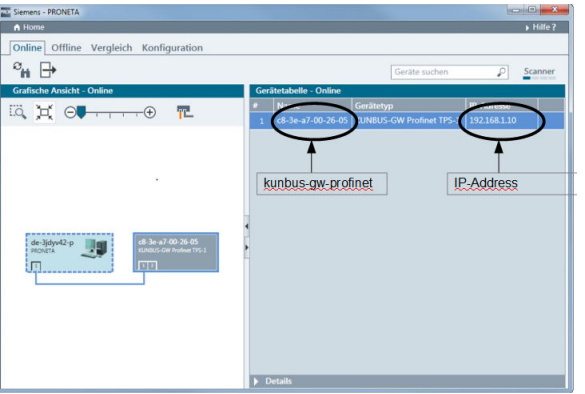
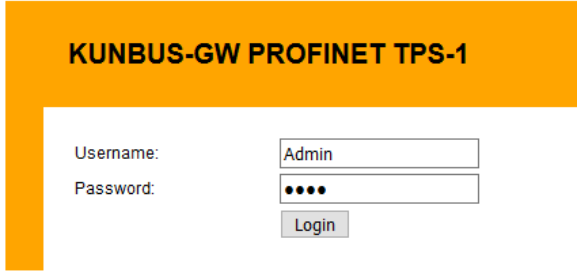
第 7 节 配置以太网/IP 网关

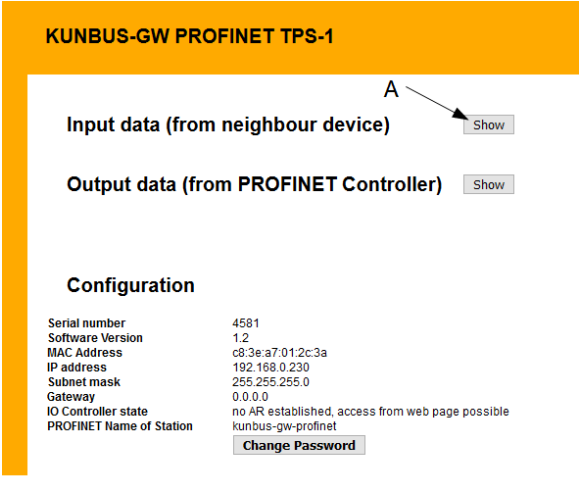
步骤	说明	图片
1	<ul style="list-style-type: none"> 使用 LAN 到 USB 转接线将以太网/IP 网关连接至电脑。 请参见 介绍 第 427 页。使用 GATEWAY 以太网/IP Slave 的链接。按照制造商提供的用户手册 <i>以太网/IP 的网关组件</i> 进行操作。 使用 8 引脚地址开关 (A) 将主机标识符设置为网关的二进制格式。 <ul style="list-style-type: none"> 示例：将主机设置为 8: 00010000 打开网站 http://192.168.1.X (x= 所有设置为“ON”的交换机的总和)。 	 <p>The diagram shows the physical device with various ports and components. A label 'A' points to an 8-pin address switch. Other labels include 'Power', 'MS', 'NS', 'LIA 1', 'LIA 2', 'ADDRESS', 'OFF ON', 'Barcode', '24V 0V', and a ground symbol.</p>
2	<p>打开浏览器并输入 IP 地址 192.168.1.X。</p> <p>用于首次登录的登录数据： 用户名：admin 密码：1701 按 Login（登录）。</p>	 <p>The screenshot shows the login interface for the KUNBUS-GW EtherNet/IP™ device. It features a title bar, a Username field containing 'Admin', a Password field, and a Login button. A link for 'Download EDS file.' is also visible at the bottom.</p>

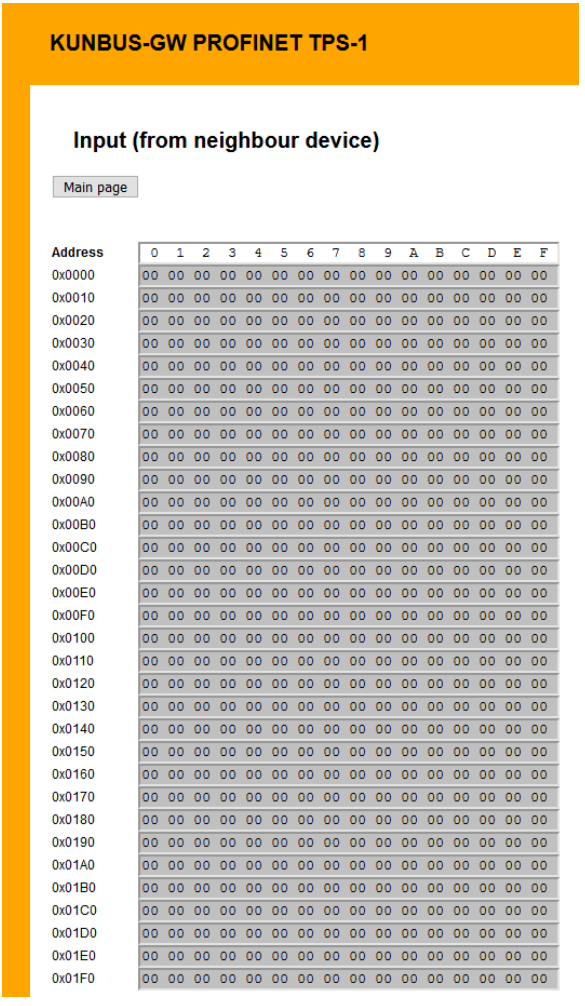
步骤	说明	图片																																																																																					
3	<p>控制器和以太网/IP 网关可传输数据区域 0000 - 01BF 内的数据，这些数据可为 448 字节、112 浮点数、224 整数或这些数据的组合，具体取决于控制器中 Modbus TCP 的报文类型。</p> <p>注： 图中仅显示了截至 32 整数的第一个数据范围。查看 PLC 中的所有数据 (224 整数)。</p> <p>按 Show (显示)。</p>																																																																																						
4	<p>此时将显示选定的数据区域。</p>	 <table border="1"> <thead> <tr> <th>Address</th> <th>Value</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Input 1 0x0001</td> <td>0</td> <td>Output 1 0x0401</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 2 0x0002</td> <td>0</td> <td>Output 2 0x0402</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 3 0x0003</td> <td>0</td> <td>Output 3 0x0403</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 4 0x0004</td> <td>0</td> <td>Output 4 0x0404</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 5 0x0005</td> <td>0</td> <td>Output 5 0x0405</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 6 0x0006</td> <td>0</td> <td>Output 6 0x0406</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 7 0x0007</td> <td>0</td> <td>Output 7 0x0407</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 8 0x0008</td> <td>0</td> <td>Output 8 0x0408</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 9 0x0009</td> <td>0</td> <td>Output 9 0x0409</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 10 0x000a</td> <td>0</td> <td>Output 10 0x040A</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 11 0x000b</td> <td>0</td> <td>Output 11 0x040B</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 12 0x000c</td> <td>0</td> <td>Output 12 0x040C</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 13 0x000d</td> <td>0</td> <td>Output 13 0x040D</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 14 0x000e</td> <td>0</td> <td>Output 14 0x040E</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 15 0x000f</td> <td>0</td> <td>Output 15 0x040F</td> <td>0</td> <td>Send</td> </tr> <tr> <td>Input 16 0x0010</td> <td>0</td> <td>Output 16 0x0410</td> <td>0</td> <td>Send</td> </tr> </tbody> </table>	Address	Value				Input 1 0x0001	0	Output 1 0x0401	0	Send	Input 2 0x0002	0	Output 2 0x0402	0	Send	Input 3 0x0003	0	Output 3 0x0403	0	Send	Input 4 0x0004	0	Output 4 0x0404	0	Send	Input 5 0x0005	0	Output 5 0x0405	0	Send	Input 6 0x0006	0	Output 6 0x0406	0	Send	Input 7 0x0007	0	Output 7 0x0407	0	Send	Input 8 0x0008	0	Output 8 0x0408	0	Send	Input 9 0x0009	0	Output 9 0x0409	0	Send	Input 10 0x000a	0	Output 10 0x040A	0	Send	Input 11 0x000b	0	Output 11 0x040B	0	Send	Input 12 0x000c	0	Output 12 0x040C	0	Send	Input 13 0x000d	0	Output 13 0x040D	0	Send	Input 14 0x000e	0	Output 14 0x040E	0	Send	Input 15 0x000f	0	Output 15 0x040F	0	Send	Input 16 0x0010	0	Output 16 0x0410	0	Send
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步骤	说明	图片
5	按 Change Configuration (更改配置) 以设置 IP 地址。	 <p>The screenshot shows the KUNBUS-GW EtherNet/IP™ web interface. At the top right, there is a 'Log Out' link and the KUI logo. Below the header, there are several 'Modbus TCP Input and Output' sections, each with a 'Show' button. The main content area is titled 'Configuration' and lists various system parameters: Serial number (594), Software Version (1.1.0464), MAC Address (48:36:47:00:06:10), IP address (192.168.1.8), Subnet mask (255.255.255.0), Gateway (192.168.1.1), and DHCP (checked). Below these parameters are three buttons: 'Change Configuration', 'Change Password', and 'Reboot'. A red arrow points to the 'Change Configuration' button. At the bottom left, there is a link for 'Download EOS file'.</p>
6	根据网关地址更改 IP 地址。 按 Apply (应用) 进行确认。 将所有 DIP 开关设置为关闭。 将网关的电源设置为关闭，然后重新启动。现在将使用新的 IP 地址。	 <p>The screenshot shows the 'Change Configuration' dialog box. It has a title bar 'KUNBUS-GW EtherNet/IP™' and a subtitle 'Change Configuration'. There are three columns: 'DHCP', 'Old Value', and 'New Value'. The 'DHCP' column has a checkbox labeled 'active'. The 'Old Value' column has input fields for 'IP Address' (192.168.1.8), 'Network Mask' (255.255.255.0), and 'Gateway' (192.168.1.1). The 'New Value' column has corresponding input fields for 'IP Address' (192.168.1.8), 'Network Mask' (255.255.255.0), and 'Gateway' (192.168.1.1). At the bottom, there are two buttons: 'Apply' and 'Abort'. The 'Apply' button is circled in red.</p>

第 8 节 配置 Profinet 网关

步骤	说明	图片
1	<ul style="list-style-type: none">使用“LAN 到 LAN”适配器将 Profinet 网关连接至电脑。请参见介绍第 427 页。使用 GATEWAY Profinet IRT Slave 的链接。按照制造商提供的用户手册 <i>PROFINET 的网关组件</i> 进行操作。使用软件 PRONTA 将名称设置为 kunbus-gw-Profinet。输入使用的 IP 地址。	
2	<p>打开浏览器并输入 IP 地址。用于首次登录的登录数据：</p> <p>用户名: admin 密码: 1701 按 Login (登录)。</p>	

步骤	说明	图片																
3	按 Show (显示) (A) 以显示输入数据。	 <p>KUNBUS-GW PROFINET TPS-1</p> <p>Input data (from neighbour device) <input type="button" value="Show"/></p> <p>Output data (from PROFINET Controller) <input type="button" value="Show"/></p> <p>Configuration</p> <table border="0"> <tr> <td>Serial number</td> <td>4581</td> </tr> <tr> <td>Software Version</td> <td>1.2</td> </tr> <tr> <td>MAC Address</td> <td>c8:3e:a7:01:2c:3a</td> </tr> <tr> <td>IP address</td> <td>192.168.0.230</td> </tr> <tr> <td>Subnet mask</td> <td>255.255.255.0</td> </tr> <tr> <td>Gateway</td> <td>0.0.0.0</td> </tr> <tr> <td>IO Controller state</td> <td>no AR established, access from web page possible</td> </tr> <tr> <td>PROFINET Name of Station</td> <td>kunbus-gw-profinet</td> </tr> </table> <p><input type="button" value="Change Password"/></p>	Serial number	4581	Software Version	1.2	MAC Address	c8:3e:a7:01:2c:3a	IP address	192.168.0.230	Subnet mask	255.255.255.0	Gateway	0.0.0.0	IO Controller state	no AR established, access from web page possible	PROFINET Name of Station	kunbus-gw-profinet
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<tr><td>0x0020</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0030</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0040</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> <tr><td>0x0050</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td><td>00</td></tr> 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第 9 节 故障排除

9.1 排除 RevPi 故障

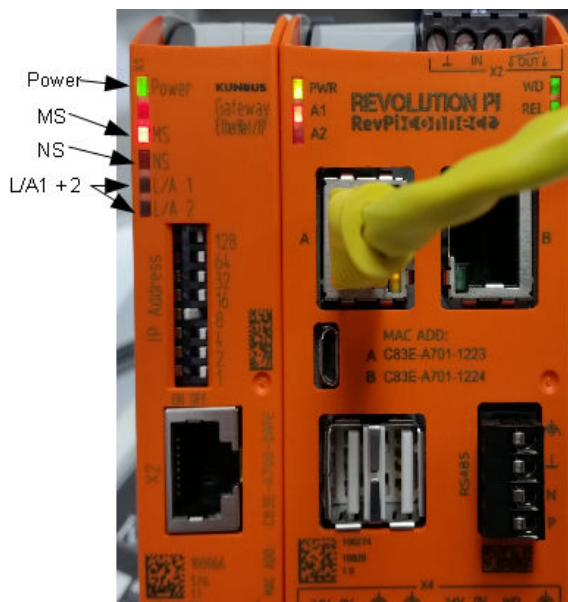
图 4 RevPi 基本模块



消息	说明	解决方法
指示灯 A2 呈红色闪烁。	通信停止。	<ul style="list-style-type: none">• 连接网线（网线或路由器）。• 将 Claros 中的 Modbus 地址设置为 1。• 将 Claros 菜单中的 Modbus TCP 设置为 On（开）。
指示灯 A3 呈红色缓慢闪烁。	以太网/IP 和 Profinet 网关的配置混合在一起。	请参阅 启动 USB 配置 第 429 页 的步骤 4 并选择正确的网关类型： <ul style="list-style-type: none">• en – 以太网/IP• pn – Profinet

9.2 排除以太网/IP 故障

图 5 以太网/IP 网关

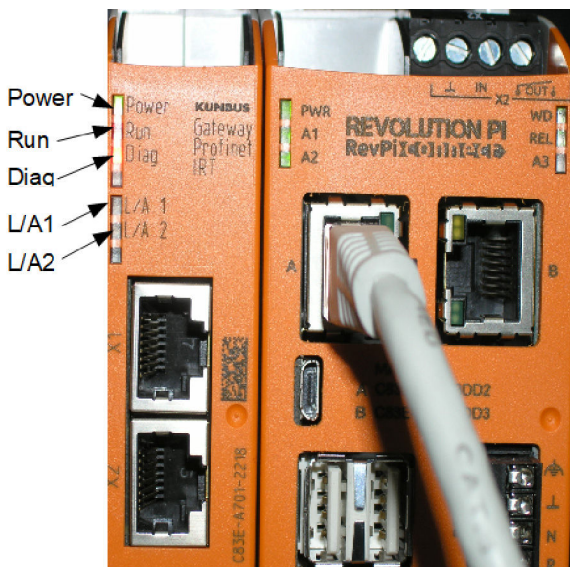


消息	说明	解决方法
电源指示灯熄灭。	以太网/IP 网关设置为关闭。	开启电源。
电源指示灯呈绿色闪烁。	启动程序未完成。	请稍等片刻。
电源指示灯呈红色闪烁。	显示警告。	检查是否所有设备都已连接。
电源指示灯呈红色常亮。	显示错误。	以太网/IP 网关故障。更换以太网/IP 网关。
MS 指示灯熄灭。	以太网/IP 网关设置为关闭。	打开电源开关。
MS 指示灯呈绿色闪烁。	配置过程未完成。	请稍等片刻。
MS 指示灯呈红色闪烁。	显示配置错误。	请参阅 配置以太网/IP 网关 第 439 页 以检查配置。
MS 指示灯呈红色常亮。	显示错误。	以太网/IP 网关故障。更换以太网/IP 网关。
MS 指示灯呈红色和绿色交替闪烁。	自检未完成。	请稍等片刻。
NS 指示灯熄灭。	以太网/IP 网关设置为关闭或缺少 IP 地址。	打开电源开关。设置 IP 地址。
NS 指示灯呈绿色闪烁。	已设置 IP 地址，但没有建立 CIP 连接。	请稍等片刻。
NS 指示灯呈红色闪烁。	CIP 连接已停止。	检查是否存在超时。

消息	说明	解决方法
NS 指示灯呈红色常亮。	选定的 IP 地址被另一台设备使用。	将 IP 地址更改为唯一的 IP 地址。
L/A 1 或 2 指示灯熄灭。	没有连接到其他设备。	连接到一台设备。
L/A 1 或 2 指示灯呈绿色闪烁。	无数据交换。	等待下一次数据交换。

9.3 排除 Profinet 故障

图 6 Profinet 网关



消息	说明	解决方法
电源指示灯熄灭。	Profinet 网关关闭。	打开电源开关。
电源指示灯呈绿色闪烁。	启动程序未完成。	请稍等片刻。
电源指示灯呈红色闪烁。	显示警告。	检查是否所有设备都已安装。
电源指示灯呈红色常亮。	显示错误。	Profinet 网关故障。更换 Profinet 网关。
运行指示灯熄灭。	无网络连接。	连接到网络。
运行指示灯呈绿色闪烁。	Profinet 控制器已连接，但没有数据交换。	等待下一次数据交换。
运行指示灯呈绿色缓慢闪烁。	由用于指示网关组件的工具触发。	请稍等片刻。
诊断指示灯呈红色闪烁。	由用于指示网关组件的工具触发。	请稍等片刻。

消息	说明	解决方法
诊断指示灯呈红色快速闪烁。	未连接至控制器。未在模块中设置 Profinet 名称。	请参阅 配置 Profinet 网关 第 442 页 以设置名称。
诊断指示灯呈红色常亮。	网关设备报告诊断数据。	请参阅诊断报告。
L/A 1 或 2 指示灯熄灭。	无网络连接。	连接到网络。
L/A 1 或 2 指示灯呈绿色闪烁。	数据交换。	请等待数据交换结束。



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