

HACH Software Update Instructions SC4500, SC1000, SC200

Before you start:

Please make sure that all configurations for mA outputs, relays, PROFIBUS DP, Modbus, PROFINET and Ethernet IP are known and could be checked and restored if necessary. Typically, software updates don't disturb the settings but must be verified.

Do not shut down instruments while performing software updates!

This update works generally in 2 steps:

1. Update the controller and verify that the most recent controller software version is loaded.
2. Update the sensor. Verify that the intended software is loaded.

Instructions to create a USB flash drive or a SD card for updating:

Please find the download on www.hach.com. Search for RESOURCES/Software or DOWNLOAD/Software on the website of the sensor.

The ZIP-file contains all necessary files for updating the sensors. Extract the ZIP-file to your PC.

Copy all files and folders from the extracted ZIP-folder onto the ROOT directory of a USB drive (SC4500 controller) or to a SD card (SC200 and SC1000 controller).

USB (D:)			
Name		Type	
HACH	11.07.2023 16:55	Dateiordner	
update	11.07.2023 18:49	Dateiordner	
SC4500_Update_2025_03_17_15_39_46_Package_3.56.swu	17.03.2025 14:48	SWU-Datei	282.36

Check the folder structure on the USB drive (SC4500 controller) or to a SD card (SC200 and SC1000 controller). Please confirm you have the 2 folders "HACH" and "update" and the SC4500-file (.swu). There could be more folders that are not relevant for the update.

Please read these instructions and contact your local TechSupport in case you have questions.

Controllers require the following minimum software versions to be able to handle these updates:

SC200 requires a minimum of V2.06 (actual release, since 03/2023)

SC1000 requires a minimum of V4.03 (currently V4.06, since 06/2024)

SC4500 requires V3.56 (actual release, since 03/2025)

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SC4500 via USB drive (approx. 8-10 minutes):

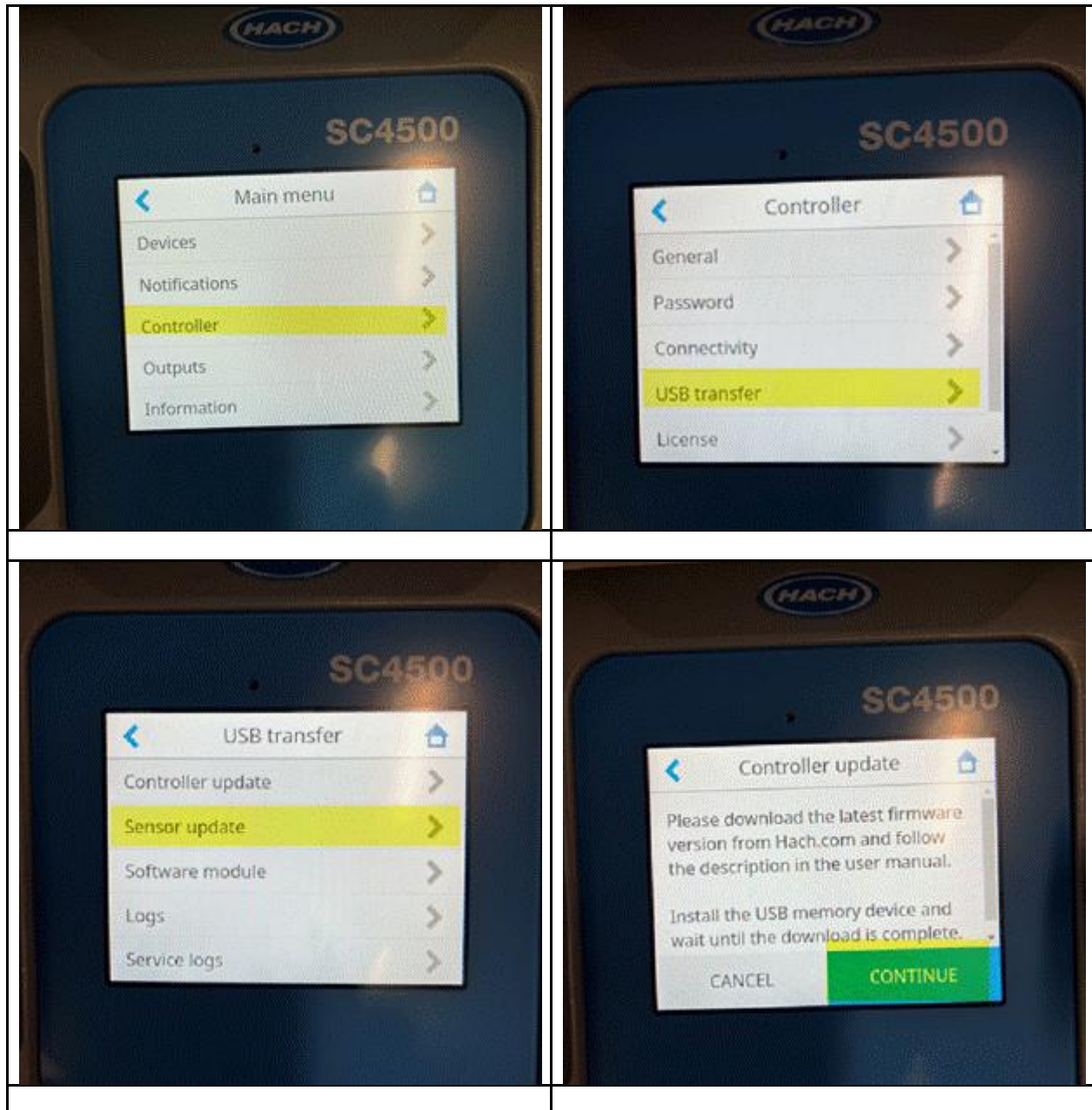
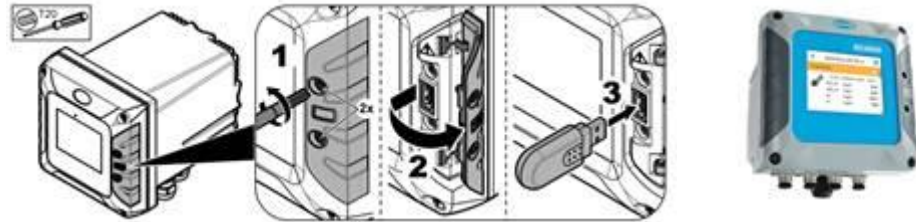
- Insert the USB-drive.
- Push the main menu icon on SC4500, then select Controller > USB transfer > CONTROLLER update.
- Follow the instructions on the screen to install the firmware update.
- When the update is complete, a message shows on the display.
- Verify that the SC4500 software version is V2.46 or higher. The version can be found in the filename: SC4500_Update_202X_XX_XX_XX_XX_XX_Package_3.XX.swu

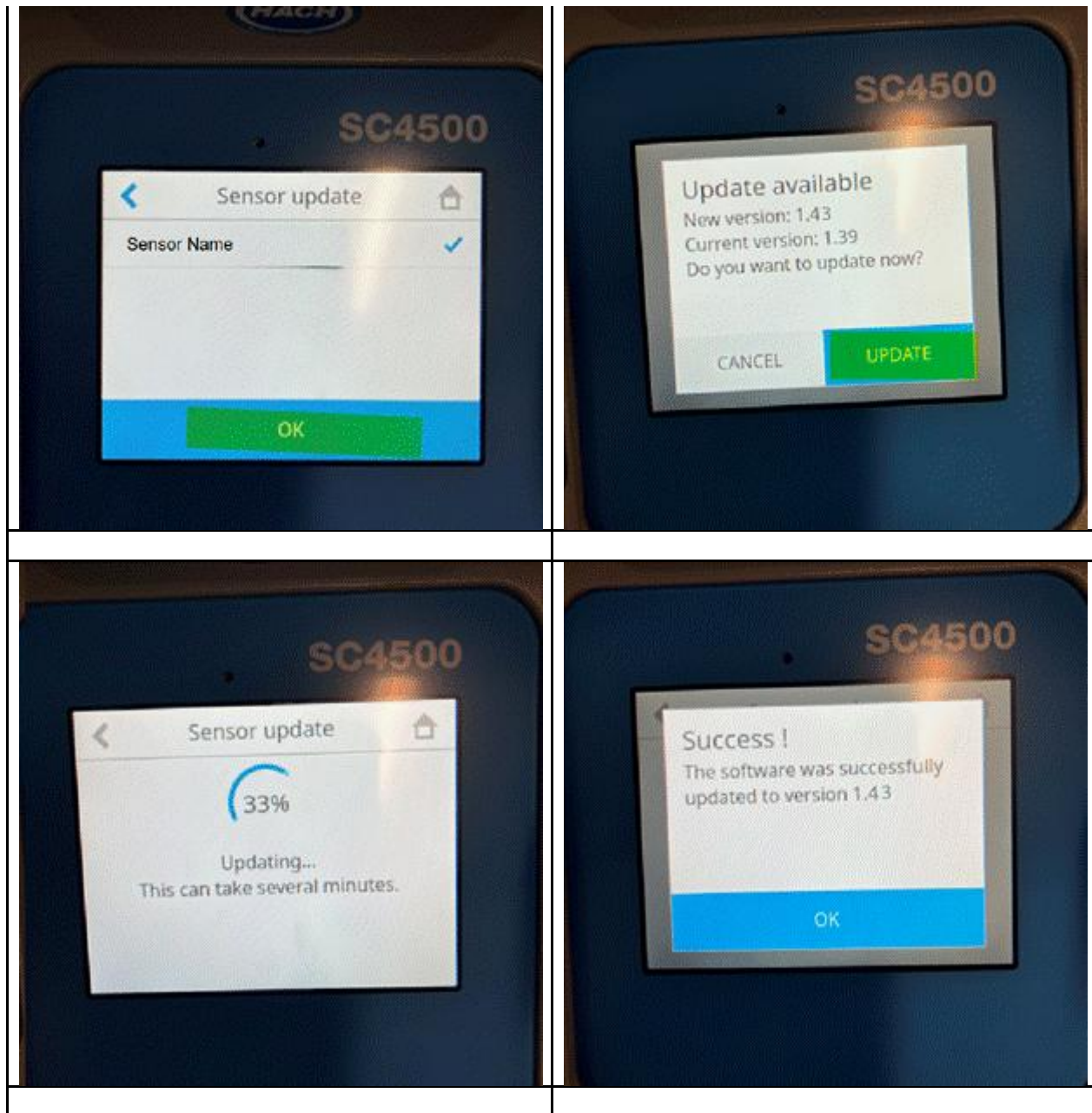


Sensor connected to SC4500

- Restart the sensor by powering down/up the controller or by disconnecting the sensor.
- Push the main menu icon on SC4500, then select Controller > USB transfer > SENSOR update.
- Follow the instructions on the screen to install the firmware update.
- When the update is complete, a message shows SUCCESS on the display.
- Restart the sensor by powering down/up the controller or by disconnecting the sensor.
- Verify in the sensor menu that the sensor software version is the intended version (Diagnostics/Test > Sensor information > Software).

SC4500 via USB drive:





SC200 via SD card (approx. 8-10 minutes):

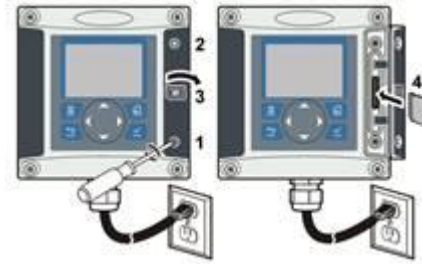
- Insert the SD-Card.
- Push the main menu on SC200, then select Settings > SD CARD SETUP
- SD CARD SETUP>UPGRADE SOFTWARE
- Select SC200
- Follow the instructions on the screen to install the firmware update.
- When the update is complete, a message shows on the display.
- Verify that the SC200 software version is **V2.06 or higher**.



Sensor connected to SC200

- Restart the sensor by powering down/up the controller or by disconnecting the sensor
- Push the main menu on SC200, then select Settings > SD card setup
- SD CARD SETUP>UPGRADE SOFTWARE
- Select the SENSOR NAME/SENSOR SERIAL NUMBER
- Follow the instructions on the screen to install the firmware update.
- When the update is complete, a message shows on the display.
- Restart the sensor by powering down/up the controller or by disconnecting the sensor.
- Verify that the sensor software version is the intended version. (SENSOR SETUP>Sensor>DIAG/TEST > SENSOR INFO)

SC200 via SD card:



STOP: if the SC1000 software is V3.10 or lower (2009 or earlier), then please contact TechSupport. The software update to the current version may not work.

SC1000 via SD card (approx. 8-10 minutes):

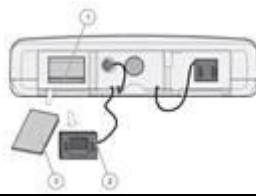
- **Step 1:** DISCONNECT sensors from SC1000
- SC1000 software MUST be updated to V4.03 or higher first, without sensors connected. Please ignore communication errors from missing sensors.
- Insert the SD-Card.
- The Push the main menu SC1000 SETUP>STORAGE CARD>UPDATE ALL
- Follow the instructions on the screen to install the firmware update.
- Scroll down on the update screen to see "UPDATE COMPLETE, please reboot now..."
- AFTER the update is complete, SC1000 needs to be restarted (power down/power up).
- Verify that the SC1000 software version is **V4.03 or higher**. (TEST/MAINTENANCE > DISPLAY INFO)



Sensor connected to SC1000

- **Step2:** CONNECT the sensor to the controller.
- Push the main menu SC1000 SETUP>STORAGE CARD>UPDATE ALL
- Follow the instructions on the screen to install the firmware update.
- When the update is complete, a message shows on the display.
- Leave to the main menu.
- Restart the sensor by powering down/up the controller or by disconnecting the sensor.
- Verify that the sensor software version is the intended version. (SENSOR SETUP>Sensor>DIAG/TEST > SENSOR INFO)

SC1000 via SD card:



Step 1: DISCONNECT sensor from the controller while updating the SC1000 software!

SC1000 must be updated first to support the sensor software afterwards. Communication errors for the sensors can be ignored during the update of the SC1000 software.

	Ignore missing TU5 sensors, hit OK!! Once Update is complete then Reboot SC1000: Power-down/power-up	TEST/MAINTENANCE > DISPLAY INFO: Verify that the SC1000 software version is V4.03 or higher.

Step 2: CONNECT sensor for update

