

## LinkComm 4.0 – Reference Guide

LinkComm is a program used to view status and configure the Satlink3 and XLink family of loggers, as well as for the ecoLog 1000, and SensorLink 1000.

LinkComm runs on PC and Mac, but it is also on Apple and Android phones and tablets.

Using LinkComm lets you:

- Configure and connect to the datalogger
- View status and measurement data
- Download and graph the logged data
- Perform diagnostics
- Upgrade the firmware

*See the user manual for the datalogger for complete documentation of LinkComm.*

### Installing LinkComm on a computer

PC and Mac versions

[download here.](#)



Or scan the QR Code

Download and unzip LinkComm to its own folder.

LinkComm may be run directly from this folder.

To install LinkComm on PC run “setup.exe”.

If installed, run it by selecting LinkComm in the Start Menu.

### Mobile

Apple Mobile



Android Mobile



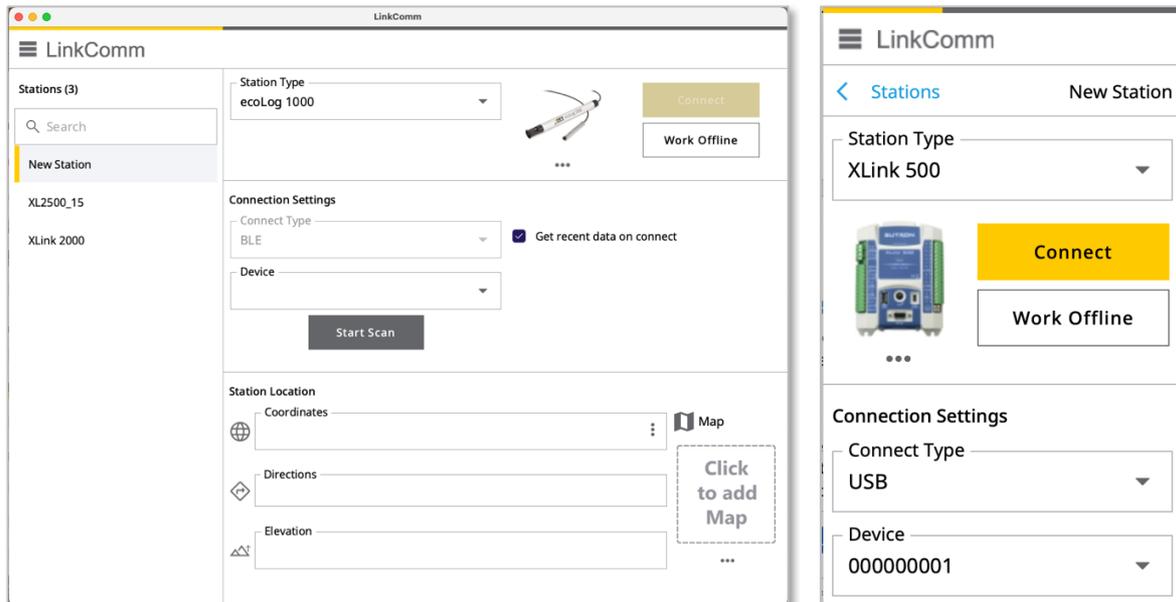
Search on LinkComm

Select Install

## Getting Connected

Select, “New Station”, on smaller screens, select the “< Stations” to see the list view where the New Station button.

Specify your station type, view the **Connection Settings** section and configure to connect to the station.



## Connect Options

- **USB** - Select this option to connect to Satlink3 or XLink via USB
- **BLE** - Connects to ecoLog 1000 or SensorLink via Bluetooth Low Energy
- **Station Wi-Fi** - For use in range of your logger’s on-board Wi-Fi
- Note: to use this option, you must first:
  - Turn Wi-Fi on the station by pressing the Satlink3 or X-Link Wi-Fi button
  - Use the device’s network settings
- **Serial** - Connect to station via serial cable or USB for X-Link family
- **Redirector** - If the logger has been set up for access via the OTT HydroMet Redirector service (for some cellular data plans). Set Username and Password to the values provided by OTT HydroMet, and select the station name
- **TCP/IP** – Enter the IP address and port for the device

**Get Setup on Connect** - Visible for Redirector connections only. When checked, LinkComm checks setup content from the station every time you connect to alert you of differences. This feature can be disabled to reduce data costs for cell plans that charge for usage.

**Get Recent Data on Connect** - When checked, LinkComm downloads the last week of data to graph on the dashboard tab, every time you connect to the station. This can be disabled to reduce cell data usage.

**Connect** button - connects LinkComm to the datalogger.

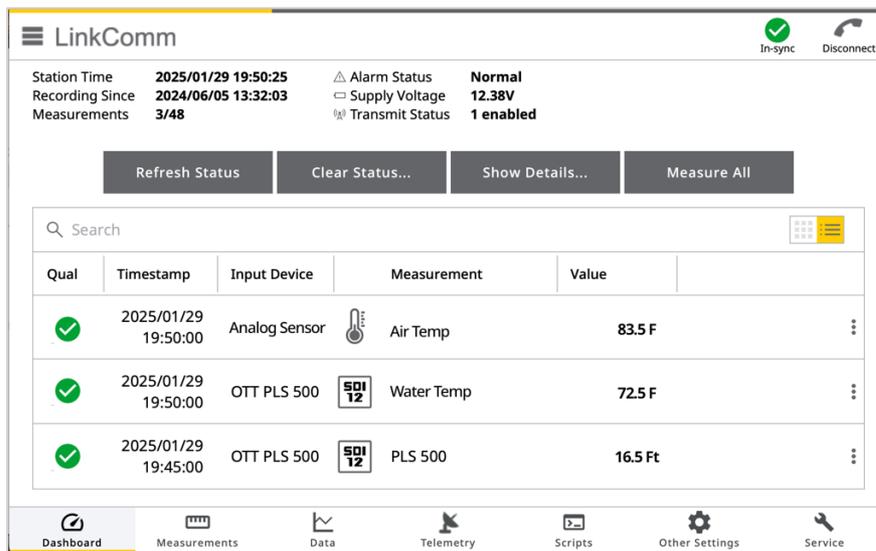
*Note: Some Modem communications can be billed per bytes transferred, so be mindful of data transfers. The size of syncing the setup to or from the logger, depends on how many measurements are active.*

## Work Offline

**Work Offline** mode - LinkComm does not communicate with the datalogger. This mode is useful for making changes to Configurations to be Saved to a station later.

*While in Offline mode, the changes you are making are not in the logger until you Sync.*

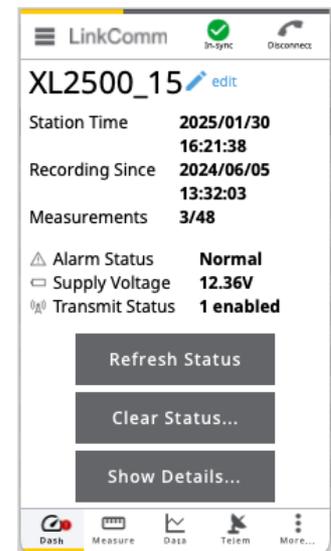
## Viewing Station Status



The screenshot shows the LinkComm main dashboard. At the top, it displays 'LinkComm' with 'In-sync' and 'Disconnect' buttons. Below this, station status is shown: Station Time 2025/01/29 19:50:25, Recording Since 2024/06/05 13:32:03, and Measurements 3/48. Alarm Status is Normal, Supply Voltage is 12.38V, and Transmit Status is 1 enabled. There are four buttons: Refresh Status, Clear Status..., Show Details..., and Measure All. A search bar is present above a table of measurements.

Qual	Timestamp	Input Device	Measurement	Value
✓	2025/01/29 19:50:00	Analog Sensor	Air Temp	83.5 F
✓	2025/01/29 19:50:00	OTT PLS 500	Water Temp	72.5 F
✓	2025/01/29 19:45:00	OTT PLS 500	PLS 500	16.5 Ft

The bottom navigation bar includes: Dashboard, Measurements, Data, Telemetry, Scripts, Other Settings, and Service.



The screenshot shows the station status detail view for station 'XL2500\_15'. It displays: Station Time 2025/01/30 16:21:38, Recording Since 2024/06/05 13:32:03, and Measurements 3/48. Alarm Status is Normal, Supply Voltage is 12.36V, and Transmit Status is 1 enabled. There are three buttons: Refresh Status, Clear Status..., and Show Details... The bottom navigation bar includes: Dash, Measure, Data, Telem, and More...

**Refresh Status** button - updates the status displayed

**Clear Status** button - resets all status data like (this cannot be undone)

**Show Details** button - view the status text stream reported by the logger

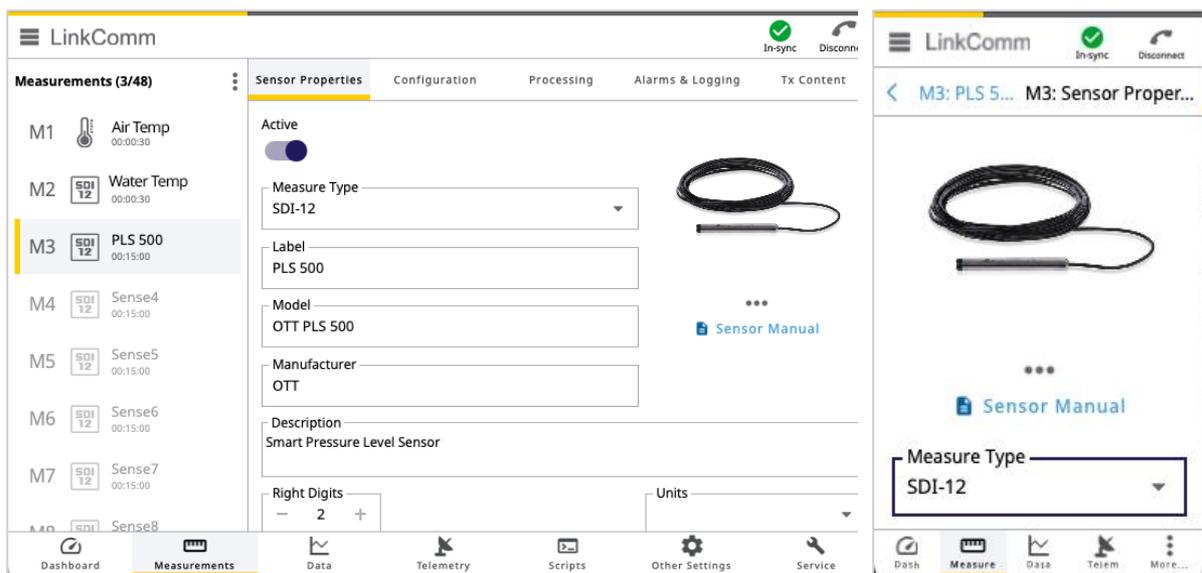
**Measure All** button – forces a measure and updates for all items on the dashboard

## Navigational Icons

	<b>Line-Item Context Menu</b>	Opens a menu allowing you to refresh recent data, or see the selected data in a larger graph on the Data tab.
	<b>Main Menu</b>	Global Menu that is LinkComm specific, not logger specific.
	<b>View Toggle</b>	Switches between different formats of the data display.
	<b>In Sync</b>	Indicates that LinkComm and the logger have the same configuration.
	<b>Changed</b>	Indicates that an unsaved change is in the LinkComm configuration.
	<b>Unknown</b>	Indicates that LinkComm does not know the status of the datalogger configuration.
	<b>Disconnect</b>	Indicates that LinkComm is connected to the datalogger, selecting this icon will disconnect to the logger.
	<b>Connect</b>	Indicates that LinkComm is not connected to the datalogger, selecting this icon will connect from the logger.

## Configuration Changes

Use the Measurements and Telemetry tabs to make changes to the Configuration. Note that after making your first change, the setup sync icon at the top of the screen changes from a green check to a yellow “changed” icon. Use this Changed icon as a reminder to send the setup to the logger when you’re done making changes.



In the desktop/tablet display, change the selected measurement by selecting a line-item from the list on the left. On smaller screens, press the “< M1” link text first to access the measurement list, then select the desired measurement.

Measurements (3/48)  Provides access to an additional Context Menu navigation.

Secondary Tabbed Menu Items are also available on the Measurements page.

How to save changes to the datalogger:

Select the  icon from the top-right Synchronization Status and the Synchronization Window will appear.

Select the Send Setup to Station button, to send the changes made in LinkComm to the Datalogger. You must send changes to the datalogger or they will not be implemented.

Selecting Get Setup from Station will overwrite the configuration that is stored locally in LinkComm to the one in the datalogger.

View Changes button allows displays what the differences are between the Station Configuration and the local LinkComm Configuration.



## Viewing Data

The Data tab allows for access to download and view historical data. If recent data was downloaded when connecting to the logger, the graph will display this information when you select the tab.



**Zoom-in on data** - Select and drag a rectangle around data that you want to zoom-in on. To zoom back out, double select the graph anywhere.

**Selecting a point** on the graph line - will show you the name of the point, the measurement, and the date-time stamp for that measurement at that moment in time.

**Data Tab** ☰ At the top-right of the Graph is an additional Context Menu that allows toggling off/on the measurements on displayed graph or chart.

**View** Dropdown menu - allows for the selection of what format the data is to be shown in the Data Tab.

**Span** Dropdown menu - allows for the selection of what time span of information is to be displayed. Whenever this selection changes, you must select the **Download\*\*\*** Button.

**Save As...** Button - allows the downloaded raw data file to be saved to your local machine.

**Options...** Button - Allows you to choose how you want the data formatted, such as:

- Include Header
- Include Events
- Separate date and time
- Use Name (not ID) – This displays the data as the saved measurement name instead of its ID number.
- Date format
- Time Format
- Column Separator
- Decimal Separator
- Invalid Data Value
- Optional Column

## Communications and Telemetry

To transfer data from the datalogger at the site to the server, telemetry needs to be configured. This involves three main steps: selecting the data transmission method, scheduling the data transmission, and choosing which data to send. For further details, refer to the datalogger manual, as the transmission methods vary between different dataloggers.

## Troubleshooting Tips

1. Cannot connect to station:
  - Only one connection can be active at a time for most stations.
  - Some stations can't accept remote connections during transmission; they may have long transmissions.
2. Some settings can't be changed remotely. Refer to the datalogger manual for details.
3. Disconnecting from the datalogger when not in use can save data and make it available for other users.

## Stations Database

Station definitions are saved in a database. You can export this file and import it into LinkComm on another device to share station definitions between your PC and smartphone. Use the "Import Database" and "Export Database" options in the Main Menu to transfer the database across devices.