# XLINK100/500 Quick Start Guide

This quick start guide will show steps on how to

- Install LinkComm software
- Connect XLink100/500 to a PC
- Connect a Lufft WS400-UMB sensor to XLINK 100/500
- Setup measurement intervals and transmission content
- Setup transmissions to HydrometCloud every 1 hour in MIS format
- Setup alarms to send a message when temperature goes above $30^0$C and after it falls below $28^0$C

## 1. Install LinkCOMM Software

Android™: App is available on Google Play™


Search terms: Sutron Linkcomm

Apple®: download from Apple App Store®


PC or Mac OS X®: download from www.sutron.com/product/linkcomm/

***Note**: For Windows 7, install driver from LinkComm menu. Newer versions of Windows do not require the driver.*

## 2. Physical Connection to XLink 100/500


### 2.1. Connecting power:

1. Connect a battery or power source (9 – 20 VDC) across terminals 1 and 2
2. If connecting a solar panel, connect between terminals 3 and 4 on XLINK500

### 2.2. Connecting to PC:

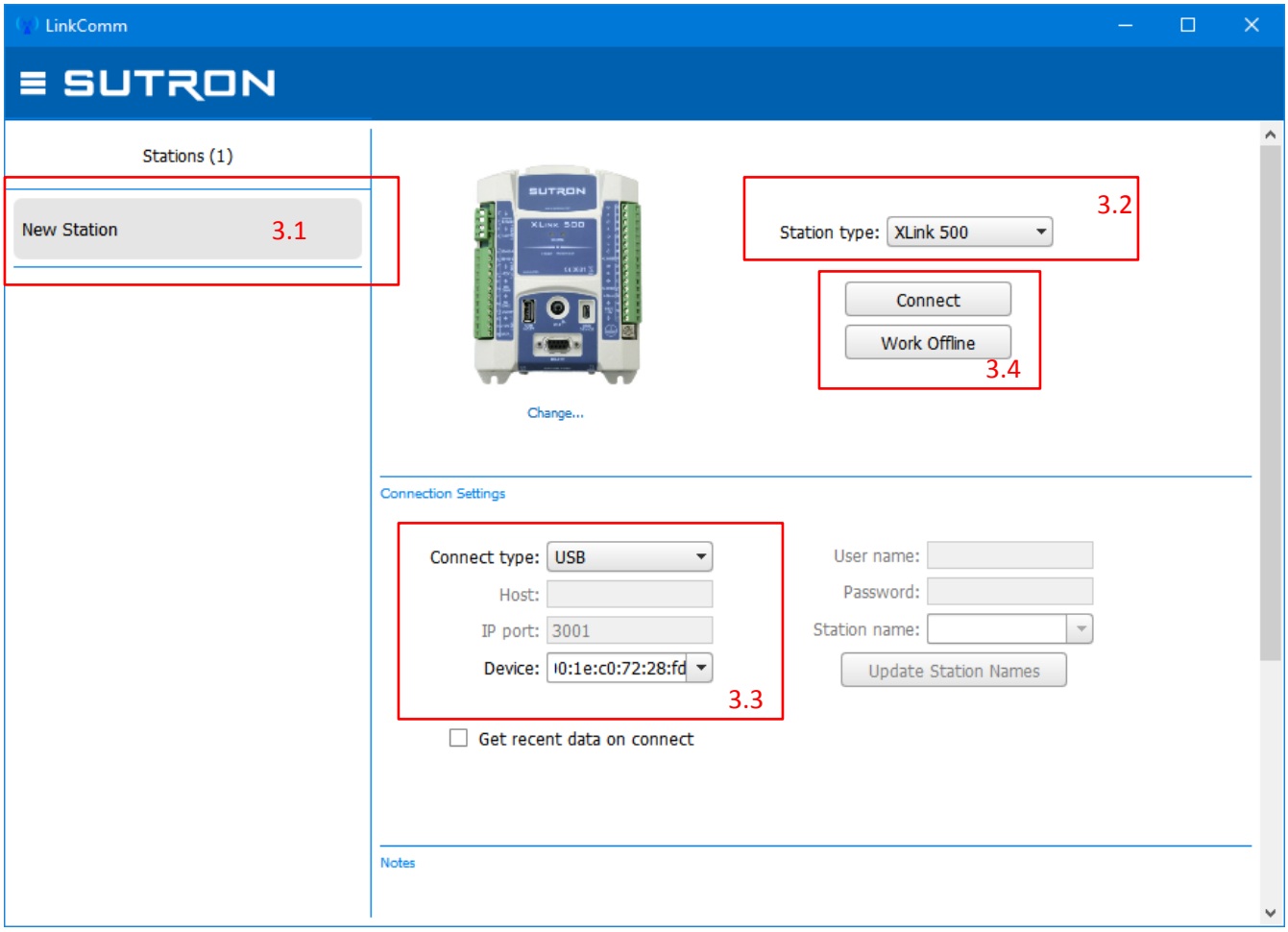
**2.2.1. USB** - Connect a micro USB cable between PC and "USB Device" port on XLINK 100/500

**2.2.2. Wi-Fi –** Press the Wi-Fi button on the unit to turn on XLINK 100/500 hotspot; On the PC, select the Wi-Fi network from Network connections.

## 3. LinkComm Session with XLink 100/500 via USB

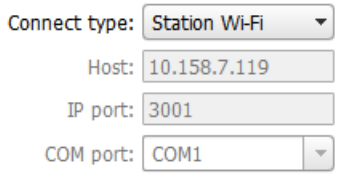
Run LinkComm application, and do the following for USB interface:

3.1. Select “New Station”
3.2. Select “Station type” as per the unit model
3.3. Set “Connect type” to USB; “Device” shall automatically show MAC ID of XLINK 100/500
3.4. Press “Connect” to interact with the unit




## 4. LinkComm session with XLINK 100/500 via Wi-Fi

4.1. Follow steps 3.1 and 3.2
4.2. Set “Connect type” to “Station Wi-Fi”;
4.3. Press “Connect” to interact with the unit ; If error “Please connect to Station Wi-Fi” appears, check the PC Wi-FI connection



## 5. Connect and configure sensor

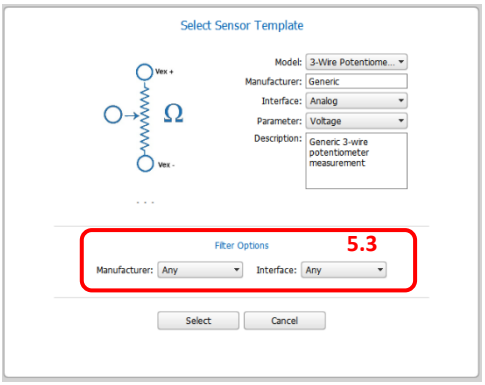
5.1. Go to “Measurements” tab in LinkComm

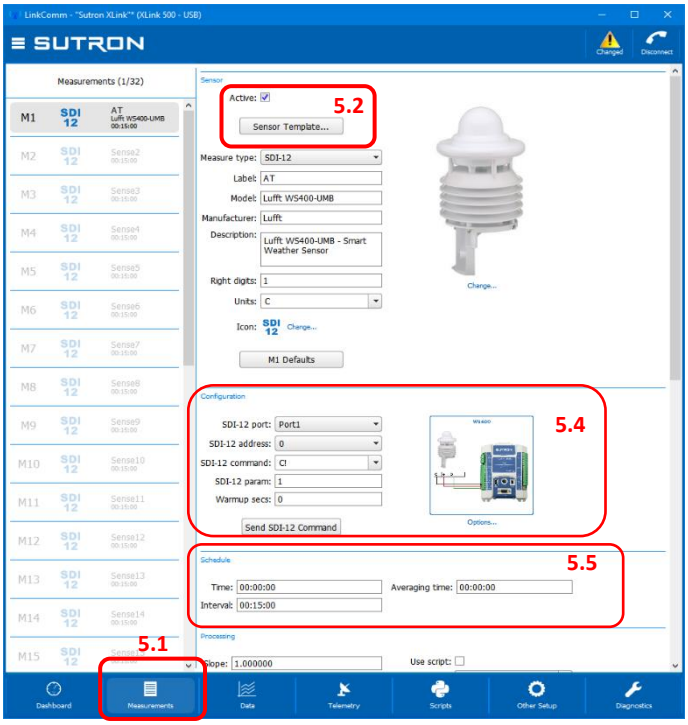
5.2. Select “Active” to activate measurement “M1” and press “Sensor Template” for pre-defined sensor setups.

5.3. Filter “Lufft” as manufacturer and “SDI-12” as interface , and select “WS400-UMB” as model; Press “Yes” in the next prompt

5.4. “Configuration” can be left unchanged

5.5. Set Schedule with time as “00:00:00”, Averaging time “00:00:00” and Interval as “00:15:00”




## 6. Setup Alarms, logging interval and a transmission content

6.1. Continue in “Measurements” tab in LinkComm

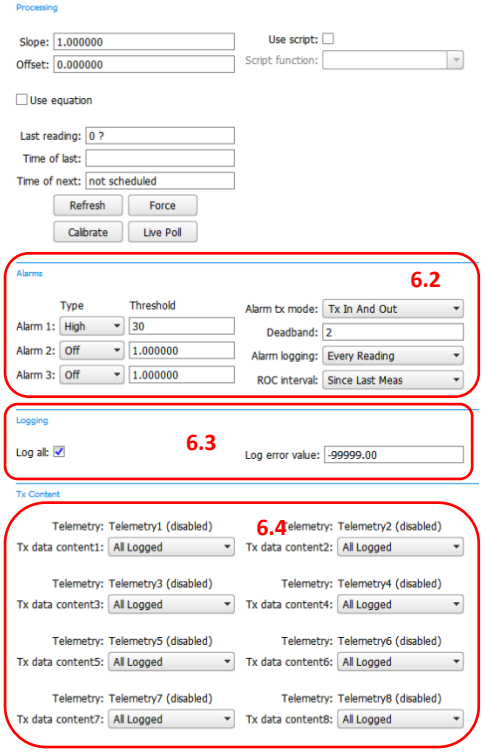
6.2. Setup Alarm type “High” with threshold of 30,

6.3. Alarm tx mode as “Tx In and Out” and a deadband of 2.

6.4. Select “Log All” to log all measurements in to memory

6.5. Telemetry1’s “Tx data content1” can be left at “All Logged” to send data measured and logged after the last transmission.

**Alarms are used to send immediate notifications when sensor readings read a certain threshold; More details can be found in XLINK 100/500 operating manual**



## 7. Select the data format and destination server

7.1. Go to “Telemetry” tab in LinkComm

7.2. Select “Enable” to turn on TX1, and select radio type as “Cell”, kind as “scheduled” and label is optional

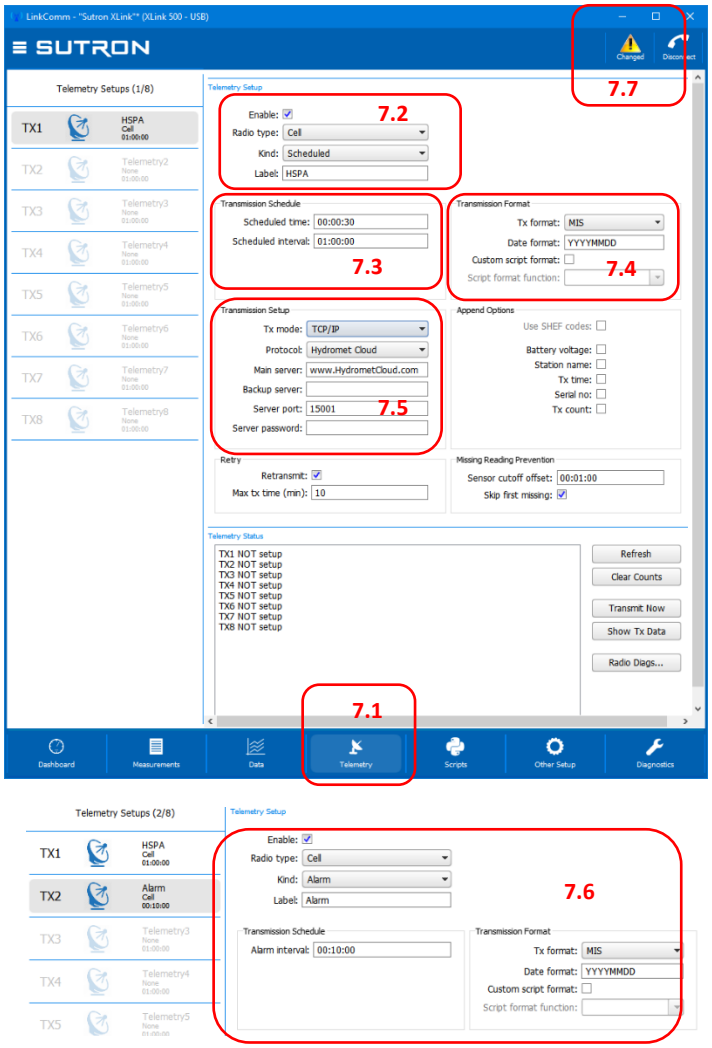
7.3. Set scheduled time and interval as “00:00:30” and “01:00:00” respectively

7.4. Select Tx format as “MIS” and date format as “YYYYMMDD”

7.5. Setup “scheduled” transmissions as shown on the right

7.6. Setup “Alarm” transmissions

7.7. The setup is now ready to be sent to XLINK100/500; Click the “Changed” icon and transfer the setup;







## 8. Send Setup to unit and start recording

8.1. Following step # 7.7, recording can be turned on the unit, by toggling the “Stop” symbol

8.2. This completes the setup of the unit.


## 9. Get More Information

9.1. Download the user manual from http://www.sutron.com/downloads.htm

9.2. Watch YouTube Videos on Sutron Channel

9.3. Contact Sutron customer service – service@sutron.com