

PiPerXS 4B Mote Quick Start Guide



Overview

The PiPerXS 4B Mote is used to transmit sensor data to TRAXX over Wi-Fi. The mote is configured via web browser from a laptop connected to the mote via Ethernet through the PoE power supply. Most configurations only require setting up the mote to connect to Wi-Fi and specifying the type of sensor connections that will be used.

Important Notes

- Sensors do not connect directly to the mote. Sensors are connected through a SensorHub™ or SmartCables.
- The Cloud URL is pre-configured from the factory. Only change this if instructed.
- The motes can be configured while installed on an asset with the sensors attached or they can be preconfigured without being connected to an asset or sensors. Wi-Fi connection is required.

What You Will Need

- Laptop with Ethernet port configured with a static IP address
 - IP address: 192.168.5.10
 - Subnet mask: 255.255.255.0
 - For setup instructions, see:
 - Windows: [Change TCP/IP Settings \(Microsoft Support\)](#)
 - macOS: [Change TCP/IP Settings \(Apple Support\)](#)
- Wi-Fi credentials for network
- Mote and PoE Power Supply
- 2 Ethernet cables
- SensorHub or SmartCables (optional)
- Sensors (CT, RTD, etc.) (optional)

Connect to the Mote

- 1) Connect the laptop to the “IN” port in the PoE power adapter and connect the mote to the “OUT” port on the PoE adapter.
- 2) Turn on the power switch on the front of the mote (move switch to the right).
- 3) Set laptop to static IP: 192.168.5.10
- 4) Browse to: <http://192.168.5.5:9292>
- 5) Log into the mote with:
 - a. **Username:** admin
 - b. **Password:** changeThisPassword
- 6) After the first log in, you will be forced to change the password.

 **Note:** Make sure to keep a record of the password used.

Configure the Mote

- 1) Go to the Network page, enter your Wi-Fi credentials and click Submit. The upper-left corner should switch to "Online".
- 2) Go to the Cloud page and click "Test Connection". You should get "Code: 200, Message: Cloud connectivity successful".

⚠ Note: The Cloud URL comes pre-configured from the factory. Do not change any of the cloud settings unless instructed to do so.

Sensor Configuration

The sensor setup can be configured on the mote whether or not the sensors are physically connected.

⚠ Note: All sensors must be connected through a SensorHub or SmartCable.

- 1) Go to the Sensors page and click "+ Add Sensor".
- 2) Use the Sensor Type dropdown to select the sensor type:
 - a. For SensorHubs, choose "Default Hub" for the serial number if you are only installing one SensorHub of that type.
 - b. Sample Frequency should usually be set to "Every Minute".
 - c. Door sensors should usually be set to "Normally Closed".
- 3) Click Submit.
- 4) If the sensor is physically connected to the mote (via SensorHub or SmartCable), click "Gather Sample" at the top of the page to verify that all sensors are detected.

For more information about SensorHub, see the [SensorHub Install Guide](#).

Instructions for Replacing Older Generation Motes

If you are installing the PiPerXS 4B to replace an existing mote, follow the steps above to configure the new mote and connect the sensors to the new mote.

⚠ Note: Do not delete the existing sensors or asset from TRAXX.

Once the new mote is configured, use the "Sensor" dropdown menu in TRAXX to select the new mote/sensor to replace the existing one.

- If the existing sensors are already connected to a SmartCable or SensorHub, you can simply connect the SmartCable or SensorHub to the new mote.
- If the existing sensors are connected directly to the mote, you will need to connect the sensor wires to the new SensorHub or SmartCable on the new mote.

Once the mote is online, connected, and authorized by KLATU Support, you can configure the asset in TRAXX.

⚠ Note: If the mote is connected to the cloud but is not showing up in your TRAXX account, contact support@klatunetworks.com to authorize (or “whitelist”) the mote for your account

For complete setup instructions including instructions for sensor placement and sensor connections, see the [PiPerXS 4B Installation & Configuration Guide](#).

Contact support at: support@klatunetworks.com