LEAP SENSORS 53-100187-24 Leap Wireless Sensor System User Manual

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Contents

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About this Manual

This User Manual describes specific configuration and usage of the Leap Flood Sensor Device.

For general information on the Leap Wireless Sensor system, see the Quick Start Guide and the main user manual – 53-100187-01.

Hardware Configuration – Water Detection

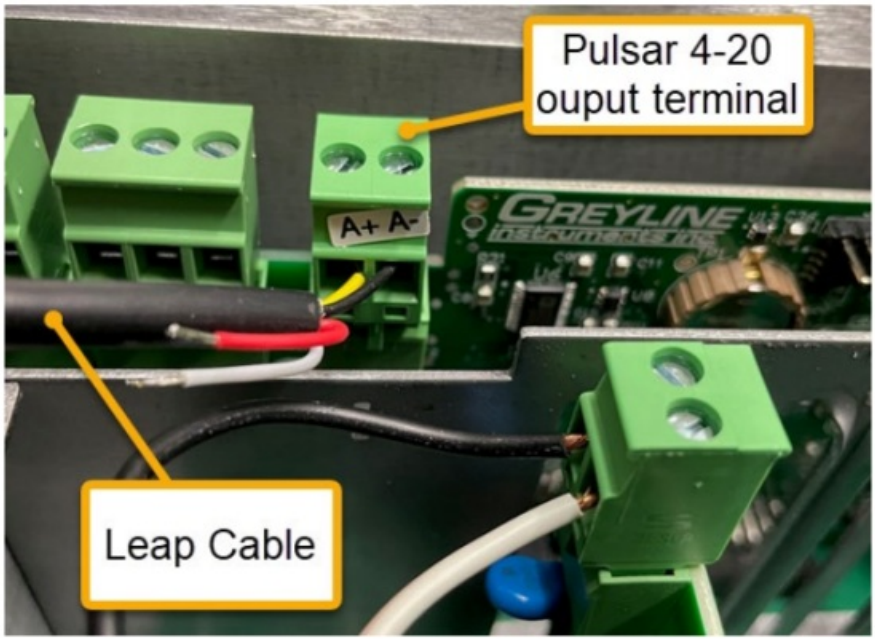
The Pulsar Flow Meter is powered seperately and outputs a 4-20mA signal that translates to a water flow.

This user manual explains how to connect the Leap Sensor Device Node to the Pulsar sensor to bring the 4-20mA signal into the Leap Device Node.

Connecting the Leap Device to the Pulsar Flow Meter

The cable exiting the Leap Sensor Device has 4 wires:

- Yellow – 4-20mA signal into the Leap Sensor – connect to the “A+” in the Pulsar meter.
- Black – Ground – connect to the “A-“ on the pulsar meter
- Red – not used
- White – not used



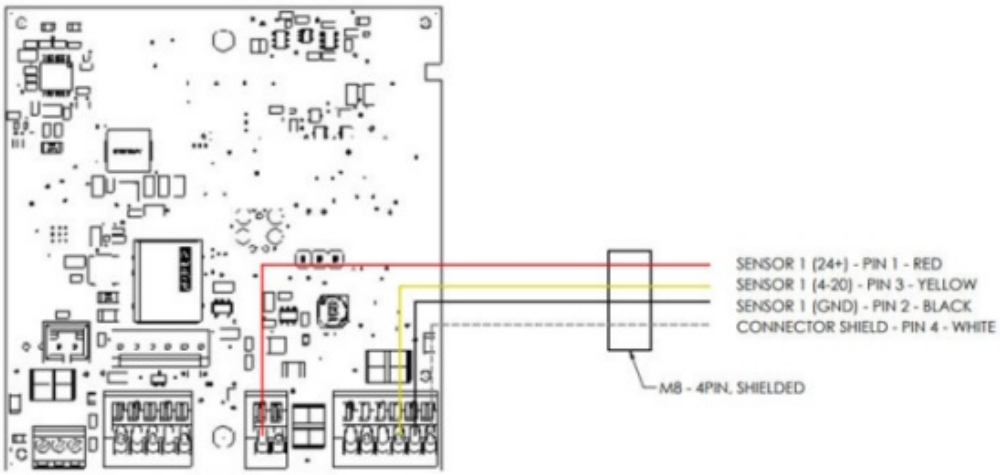
Leap Terminal Block Pin-Out

The pin-out to the terminal block inside the Leap Module is shown below.

To open the lid of the Leap Node, use a screwdriver in the slot on the right side. Press down, then pivot to the right to pop open the hinge. See the video demonstration of opening the lid: https://www.phaseivengr.com/about-us/support/ “Opening & Closing the Transceiver Node Enclosure” For a 4-20 mA sensor, the pin-out is shown below.

For the Pulsar Flow sensor

- The red wire is not connected because the Leap sensor is not powering the sensor.
- White wire is not connected to the Leap sensor
- The cable shield is not connected



Software Interface

Converting the 4-20mA signal to a flow measurement

The configuration menu allows you to convert the 4-20mA signal to a flow measurement. See the screenshots below.

SCREEN SHOTS OF 4-20 CONVERSION

Bench Testing the Leap Sensor with the Pulsar Flow Meter

The Pulsar Flow Meter has a simulation mode where it can output a user-set output. This is useful when testing the Leap sensor connection to the 4-20mA output.
Follow the instruction with the Pulsar meter to get into the simulation mode.

Technical Support

For more information about our products and services, or for technical assistance:
Visit us at: **www.phaseivengr.com**
Tel: +(303) 443 6611 (USA – MST 8:00 a.m. to 5:00 p.m., Mon.-Fri.)
E-Mail: **support@phaseivengr.com**
If you need assistance, please provide the product part number, product serial number, and product version.

LEAP SYSTEM User's Operating Manual

2820 Wilderness Place, Unit C Boulder, Colorado, 80301
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Documents / Resources

	**LEAP SENSORS 53-100187-24 Leap Wireless Sensor System** [pdf] User Manual 53-100187-24 Leap Wireless Sensor System, 53-100187-24, Leap Wireless Sensor System, Wireless Sensor System, Sensor System

References

- **Phase IV Engineering | Wireless Sensor Solutions for the Industrial IoT**
- **Phase IV Engineering | Wireless Sensor Solutions for the Industrial IoT**
- **User Manual**