



Next-Generation Sensor Connectivity

Effortlessly cloud-connect all of your sensors within seconds with plug & play sensor support and edge processing technologies.

Fully autonomous sensor connectivity with optional integrated 4G/LTE cellular modem, wireless mesh networking, and battery pack in a weather resistant enclosure. The sensemetrics THREAD wireless devices are at the center of our sensor data management platform. The devices are known for their flexibility, wide range of sensor support, and Plug-and-Play installation capabilities — even in harsh environments. A seamless integration of hardware and software providing a complete real-time data management and field-to-office solution. No wires, no configuration, no stress.

- **ADAPTIVE AND RESILIENT**

Self-forming radio mesh network

- **SENSOR AGNOSTIC - WITH INDUSTRY LEADING SENSOR SUPPORT**

Support for almost any sensor and data types within Spatial, Geotechnical, Structural, Environmental and Process verticals.

- **NO NEED FOR CONFIGURATION**

Automatic role detection - gateway or endpoint

- **NEVER LOSE DATA**

Stores data when wireless uplink is unavailable

- **STAY CURRENT**

Push over the air (OTA) firmware updates anywhere in the world with the push of a button

- **STREAMLINED CONVENIENCE**

Power and control sensors, dataloggers & interfaces with a single connect cable. Manage your device from your browser.

- **MULTIPLE MODES OF COMMUNICATION**

Connect to existing LAN and WAN networks where Internet infrastructure exists. Deploy distributed devices connected to cellular networks. Extend sensor networks with resilient wireless mesh technology.

- **POWERFUL AND INTELLIGENT**

Built-in environmental and diagnostics sensors



Specifications

THREAD X-Series


Outdoor Rated Enclosure with Battery




Mesh Wireless Frequency:	870 MHz 900 MHz LP 900 MHz HP
Mesh Wireless Range:	0.5 miles 3.5 miles 7.5 miles
Output Power:	25mW 250mW 1000mW
RF Data Rate (max):	80 kbps 250 kbps 250 kbps
Networking I/O:	Ethernet x 1, Lemo 8-pin Mesh Wireless x 1, N-type Cellular x 1, N-type (XC model)
Sensor I/O:	Device Port x 2, Lemo 12-pin USB, RS232, RS485, 0-5VDC input, 4-20mA input, MUX control
Input Voltage:	15-18 VDC
Power Input:	Up to 3200MA (Charge mode) 190mA RMS (Standard mode) 20mA RMS (Low power mode) @18VDC
Direct Connect Solar Panel:	10W-50W
Battery:	10Ah LiFePO4
IP Rating:	66
Operating Temp:	-40°F to 158°F (-40°C to 70°C)
Cellular Technology:	Verizon (US); LTE B4, B13, No Fallback AT&T/T-Mobile (US, Canada, Mexico); LTE B2, B4, B5, B17; HSPA Fallback B2, B5 Global (EU28, LATAM, Singapore, Australia); LTE B3, B7, B20, HSPA Fallback B1, B5, B8
Environmental Temperature:	-40°F to 158°F (-40°C to 70°C), precision +/- 0.5°F
Environmental Pressure:	measurement range 0.26 bars - 1.26 bars, precision 0.00001 bars RMS

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