

Remote Monitoring System ExactAire® Multi Sensor

Product Description

As part of an ExactAire® remote monitoring system, the Multi Sensor is a highly flexible device capable of monitoring a variety of conditions using sensing probes. The sensor uses LoRaWAN. communication which is optimized for long range and low power usage. Data is accessible in mobile and desktop applications where users can track trends, build reports, or configure alerts.

An onboard temperature and relative humidity sensor provides local measurements 24/7. There are four ports available for configuration of external probes. These include temperature and relative humidity for extended coverage, wood moisture equivalent (WME) for mass timber construction, surface temperature for coating applications or chiller monitoring, concrete moisture measurements, and perimeter leak detection.

Features

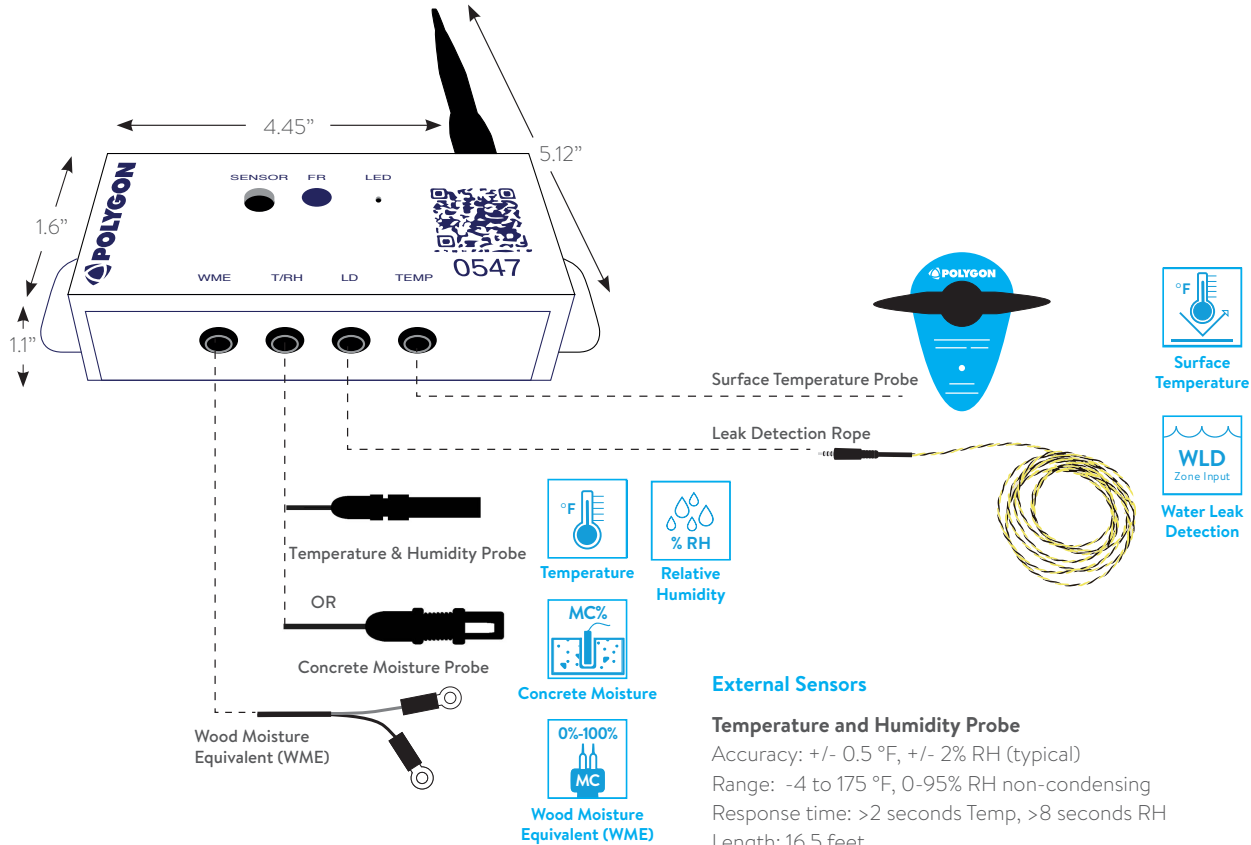
- Monitor status of multiple conditions with the use of a variety of probes
- Notify stakeholders of conditions with alerts
- LoRaWAN for cloud communications
- Onboard temperature and relative humidity
- Configurable for up to 4 additional measurements
- Sampling rate of 15 minutes or on event
- Battery life of up to 2 years
- CE accredited



Benefits

- Continuously monitor conditions in real-time and understand how they change over time
- Low maintenance with straightforward setup and automatic baseline correction a self-calibrating function
- Small and flexible capable of operating multiple probes at the same time

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Specifications

Length: 4.45"
Width: 1.61"
Height: 1.10"
 excluding antenna @ 5.12 inches long

Weight: 0.21 lb with antenna

Onboard Temperature and Humidity

Accuracy: +/- 0.5 °F, +/- 2% RH (typical)
 Range: 14 to 140 °F, 0-95% RH non-condensing
 Response time: >2 seconds Temp, >8 seconds RH
 IP Rating: IP50

Sensor Inputs: 4 for external sensors

Communications: LoRa™ WAN (cloud-based)
 Requires a Polygon communications gateway

Sensor Coverage Range: 4,000-5,000 square feet in unobstructed conditions

Power requirements: battery-operated for up to 2 years

External Sensors

Temperature and Humidity Probe

Accuracy: +/- 0.5 °F, +/- 2% RH (typical)
 Range: -4 to 175 °F, 0-95% RH non-condensing
 Response time: >2 seconds Temp, >8 seconds RH
 Length: 16.5 feet

Concrete Moisture Probe

Accuracy: +/- 0.9 °F, +/- 2% RH (typical)
 Range: -4 to 158 °F, 0-95% RH
 Response time: <116 seconds Temp (typical), <29 seconds RH (typical)
 Length: 10 inches
 IP Rating: IP67

Surface Temperature Probe

Accuracy: +/- 0.9 °F (typical)
 Range: -20 to 175 °F
 Response time: <116 seconds (typical)
 Length: 14.8 feet
 IP Rating: IP68
 Magnetic connection

Wood Moisture Equivalent (WME) Probe

Range: -4 to 175 °F, 0-100% RH non-condensing
 Range (WME): 9-50%
 Response time: immediate, limited to report interval.
 Length: 22 inches

Leak Detection Rope

Range: -4 to 175 °F, 0-100% RH
 Response time: 1 minute
 Length: 10 feet

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