IntelliSensor™ for Humidity and Temperature

IntelliSensor[™] Product Description

The IntelliSensor™ is a cost effective, wireless monitoring system operating on the 802.15.4 ZigBee® standard for storing and communicating humidity, temperature, and dewpoint information, among other features. Sensors have built in temperature probes and transmit data wirelessly to the IntelliGate™. The IntelliGate™ unit temporarily stores and processes all of the data from the



IntelliSensor™ units and relays the received data over Ethernet to the FusionLive™ software, allowing for an easy creation of a centrally managed monitoring application.

IntelliSensor[™] Features

- ▶ Battery powered wireless solution operates via ZigBee®
- Humidity, temperature, and dewpoint readings
- Completely wireless (No need for power, data, or sensor cables)
- Battery lasts up to 10 years
- Strongest wireless transmitter on the market
- Supports meshed networking for increased reliability and range
- Sensors equipped with data loggers capable of storing up to 1 week-worth of data internally
- ► Completely integrated solution with FusionLiveTM Software
- No hardware configuration needed (Sensors automatically join network)
- Firmware can be updated wirelessly (over-the-air)
- User configurable transmission interval (over-the-air)
- Conformal coated board for moisture rich operating environments
- Sensors are factory calibrated

IntelliSensor[™] Specifications

- Operating temperature of -40 °C to 85 °C
- Operating humidity of 0 to 100 %, non-condensing
- ▶ Humidity measurement range of 0-100% RH
- ▶ Humidity Accuracy: ± 1.8% RH (10...90% RH)

± 3.0% RH (0...10% RH)

± 3.0% RH (90...100% RH)

- ▶ 0.04% RH Humidity resolution
- ▶ 0.01 °C Temperature resolution
- ★ ± 0.2 °C Temperature accuracy (at 25 °C)

± 0.5 °C (-40 °C...85 °C)









