

Intellia Temperature Monitoring Sensor

INT-T-02

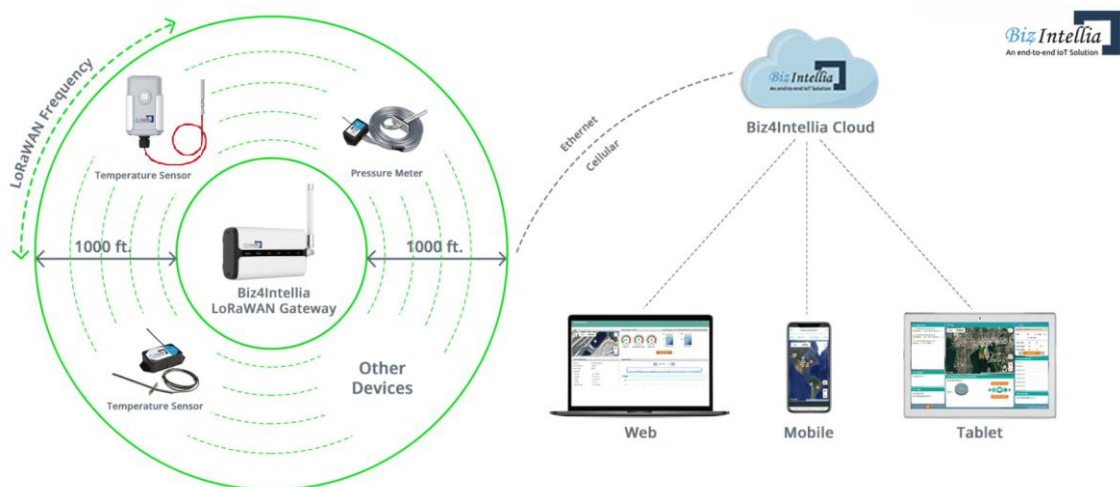


Introduction:

Intellia Temperature Monitoring Sensor resistance temperature sensor is designed for measuring wide range of temperature in harsh environments and transmitting data using LoRaWAN® technology. With this low power consumption technology, INT-T-02 can work up to 10 years with 19000 mAh battery. Combining with Biz4Intellia LoRaWAN® gateway and Biz4Intellia IoT Platform, users can manage all sensor data remotely and visually.

Sensor is widely used for temperature monitoring applications like industrial machines, industrial boilers, ovens, pipes, etc.

Architecture Work Flow



Email: info@biz4intellia.com

Ph. Nu: +1 (614) 329-6463

Address: 7380 W Sand Lake Rd #500, Orlando, FL 32819, USA

◆ Features

- Corrosion resistance cable and multiple probe options
- 3 wire connection for high precision
- Ultra-wide-distance transmission up to line of sight of 10km
- IP66 waterproof enclosure for harsh environment applications
- Built-in 19000 mAh replaceable battery and work for 10 years without replacement
- Equipped with NFC for easy configuration
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with Biz4Intellia IoT Platform

◆ Applications

- Liquid or gas monitoring
- Industrial machine monitoring
- Oven and cooking monitoring
- Chimney and boiler temperature monitoring
- Medical or laboratory use

◆ Specifications

Wireless Transmission	
Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-147dBm @300bps
Mode	OTAA/ABP Class A
Measurement	
Connection Type	3-wire connection
Range	T-50: -200 °C to +50 °C T-200: -50 °C to +200 °C T-500: -50 °C to +500 °C T-800: -50 °C to +800 °C (Customizable from -200 °C to +800 °C)
Accuracy	±0.5°C
Resolution	0.1°C
Operation	
Power On & Off	NFC, power button (Internal)
Configuration	Mobile APP(via NFC) or PC software(via USB Type-C)

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Physical Characteristics	
Cable Length	1.5 m (Customizable)
Probe Type	Straight tube (Customizable)
Power Supply	19000 mAh Li-SOCL ₂ battery (ER34615)
Battery Life*	5 years (10 min interval, SF12) >10 years (10 min interval, SF7)
Operating Temperature	-30°C to +70°C
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP66
Dimension	105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in)
Installation	Pole, wall or DIN Rail Mounting

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