

WIRELESS THERMOCOUPLE TEMP SENSOR

Outdoor/Industrial Version



The wireless thermocouple temperature sensor measures temperature using an external K-type thermocouple. Other thermocouples may be used and can be configured via downlink messages.

Temperature reporting can be based on thresholds, report-on-change, and periodic messaging .

Versions of the sensor support the major LPWAN standards such as Sigfox, LoRa/LoRaWAN, and NBLoT.

APPLICATIONS

- Gas turbine exhaust
- Diesel engines
- Industrial processes
- Flame sensor
- Petroleum refineries
- Appliance heating
- Food processing and production
- Temperature profiling of furnaces

FEATURES

- Built-in radio that talks directly with the wireless network*. Standards include:
 - Sigfox®
 - LoRa®/LoRaWAN™
 - NBLoT
- Enclosure tamper detects if the packaging of the sensor itself is opened or broken
- 20,000-200,000+ transmissions on a single battery and a 5-10 year battery life depending on usage
- User replaceable battery
- Fully integrated internal antenna
- Over the air sensor configuration in the field
- Automatic low battery reporting and supervisory (sensor health) reporting
- Multiple thermocouple types supported: B, E, J, K, N, R, S, and T
- Voltage input modes
- Fault detection

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