LoRaWAN Heavy Duty Thermocouple Temperature Transmitter



Smart Agriculture, Smart Building, Smart City, Smart Energy, Smart Facility, Smart Factory, Smart Farm. Smart Retail. Smart Utilities

SKU: WSLRWAL-TC





Hazardous Zones

WSLRWAL-TC is LoRaWAN wireless transmitter for heavy duty applications, with modular design connected to thermocouple temperature sensor, based on 10-year experience in design and manufacturing Industrial sensor of Daviteq Company. It has been factory pre-calibrated for high accuracy and quick set-up. The Ultra-Low Power Power design and smart firmware allow the sensor to last up to 10 years with 01 x C 3.6V battery (depending on configuration). The sensor will transmit data over kilometers away to the LoRaWAN gateway, any brand on the market. Some typical applications are temperature monitoring for factories, agriculture, boilers,...

Applications

Temperature Monitoring, Process Monitoring, Safety Monitoring

Notes For Applications

When selecting a thermocouple transmitter node, consider the following criteria:

- Temperature Range: Determine the required measurement temperature range for your application.
- Chemical Resistance: Assess the compatibility and durability of the thermocouple wires with the environment where they will be exposed.
- Abrasion and Vibration Resistance: Choose a transmitter that can withstand abrasion and vibration in your specific installation.
- Installation Requirements: Consider existing equipment and available probe hole sizes to determine the appropriate probe diameter

LoRaWAN communication

LoRaWAN communication standard to allow sensor connect to any LoRaWAN Gateway on the market

10-Year battery

Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology allow the sensor can last up to 10 years with 1 x C batteries 3.6 VDC

Pre-calibrated

Sensors are pre-calibrated at factory to deliver high accuracy and quick installation

Heavy-duty design

Cast aluminum, IP66 housing for heavy-duty applications.



DAVITEQ TECHNOLOGIES INC

- 👩 Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH
- +84.28.6268.2523 / 6268.2524
- info@daviteg.com

www.iot.daviteq.com

Created date: Jun-02-2024

Updated date: Aug-28-2024



Specification

| Input | Thermocouple Temperature Sensor Type B, Type E, Type J, Type K, Type N, Type R, Type S, Type T |
|--|---|
| Accuracy | ± 0.55 °C in ambient temperature range -20 \sim 100°C ± 1.05 °C in ambient temperature range -40 \sim 125°C **Not included error of Thermocouples |
| Resolution | 0.1°C |
| Sensor port connector | PG9 Connector |
| COMMUNICATION | |
| SF Factors | SF7~SF12 |
| Antenna | External antenna |
| Power Supply | Primary batteries 01 x C size 3.6VDC (battery not included) |
| | |
| RF Frequency and Power | 860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915 |
| RF Frequency and Power Protocol | 860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915 LoRaWAN Class A V1.0.3 |
| , , | |
| Protocol | LoRaWAN Class A V1.0.3 |
| Protocol Data sending modes | LoRaWAN Class A V1.0.3 interval time, alarm and manually triggering by magnetic key |
| Protocol Data sending modes Housing | LoRaWAN Class A V1.0.3 interval time, alarm and manually triggering by magnetic key Cast aluminum, IP66 |
| Protocol Data sending modes Housing Ambient working temperature | LoRaWAN Class A V1.0.3 interval time, alarm and manually triggering by magnetic key Cast aluminum, IP66 -40~85°C (use with SAFT LS26500) |

DAVITEQ TECHNOLOGIES INC

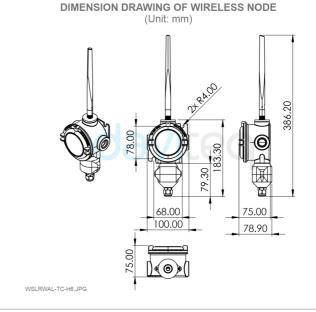
- 🗿 Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH
- +84.28.6268.2523 / 6268.2524
- info@daviteq.com www.iot.daviteq.com







LORAWAN SENSOR CONNECT WITH THERMOCOUPLE SENSOR VIA PG9 CONNECTOR PG9 Connector Sensor Input Port





LS 26500 Lithium battery



-60°C..+85°C working temperature Low self-discharge rate 7.7 Ah Capacity

WSLRWAL-TC-H7.JPG

WSLRWAL-TC-H4.JPG

WHAT'S IN THE PACKAGE? WHAT'S IN THE PACKAGE? HEAV-DUTY HERMOCOTER SESSOR COVER Main Device Antenna Accessories

DAVITEQ TECHNOLOGIES INC

- O Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH
- +84.28.6268.2523 / 6268.2524
- info@daviteq.com

www.iot.daviteq.com

Created date: Jun-02-2024

Updated date: Aug-28-2024



Ordering Information

| ITEM CODE | DESCRIPTIONS |
|---------------|---|
| WSLRWAL-TC-01 | Wireless LoRaWAN Heavy-duty Thermocouple Temperature Transmitter, External antenna, Type C battery 3.6VDC, IP66, 860-930MHz for all regions |

DAVITEQ TECHNOLOGIES INC

- 🗿 Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH
- +84.28.6268.2523 / 6268.2524
- info@daviteq.com www.iot.daviteq.com Created date: Jun-02-2024 Updated date: Aug-28-2024