

# LoRaWAN PT100 Temperature Sensor



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

SKU: WSLRW-PT100

## LoRaWAN PT100 TEMPERATURE SENSOR WSLRW-PT100



WSLRW-PT100-H1.PNG



WSLRW-PT100 is LoRaWAN wireless sensor with modular design connected to PT100 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 design and smart firmware allow the sensor to last up to 10 years with 02 x AA battery (depending on configuration). The sensor will transmit data over kilo-meters 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



#### 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 2 x AA batteries 1.5VDC



#### Pre-calibrated

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



#### Outdoor IP67

IP67 design for both Indoor and Outdoor applications and easy cleaning

## CONNECT WITH PT100 TEMPERATURE SENSOR



WSLRW-PT100-H2.PNG

### DAVITEQ TECHNOLOGIES INC

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Created date: Dec-21-2022


Updated date: Aug-28-2024

1/4


## Specification

|                        |  |
|------------------------|--|
| Input                  | PT100 Temperature Sensor   |
| Accuracy               | 0.05%  |
| Sensor port connector  | PG9 Connector  |
| COMMUNICATION          |  |
| SF Factors             | SF7~SF12   |
| Antenna                | Internal Antenna 2.0 dbi   |
| Battery                | 02 x AA size 1.5, battery not included   |
| RF Frequency and Power | 860~930MHz, 14~20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915 |
| Protocol               | LoRaWAN, class A   |
| Data sending modes     | Interval time and when alarm occurred  |
| RF Module complies to  | ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)              |
| Vietnam Type Approval  |  |
| Working temperature    | -15~60°C (using L91 Energizer® battery)  |
| Dimensions             | H180xW50xD40   |
| Net-weight             | 250g   |
| Housing                | Polycarbonate & POM plastic, IP67  |

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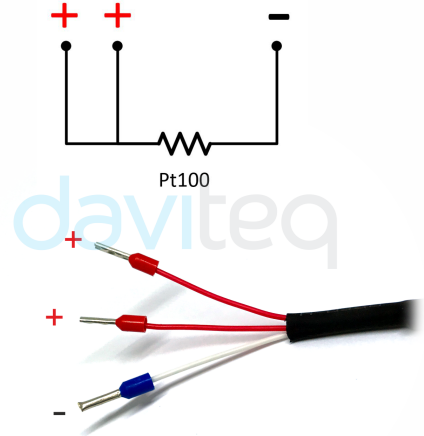
2/4

LoRaWAN SENSOR CONNECT WITH PT100 TEMPERATURE SENSOR VIA PG9 CONNECTOR



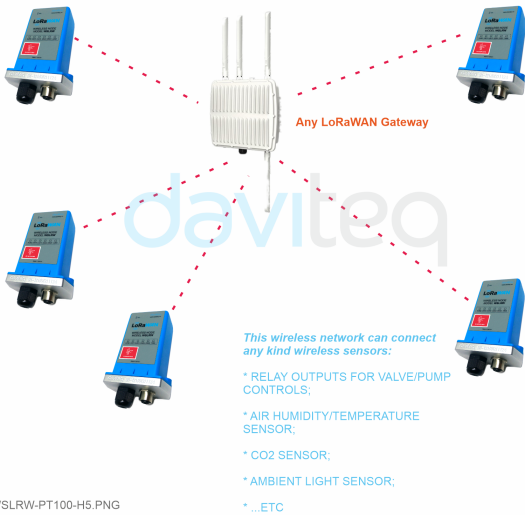
WSLRW-PT100-H3.PNG

WIRING THE PT100 TEMPERATURE SENSOR



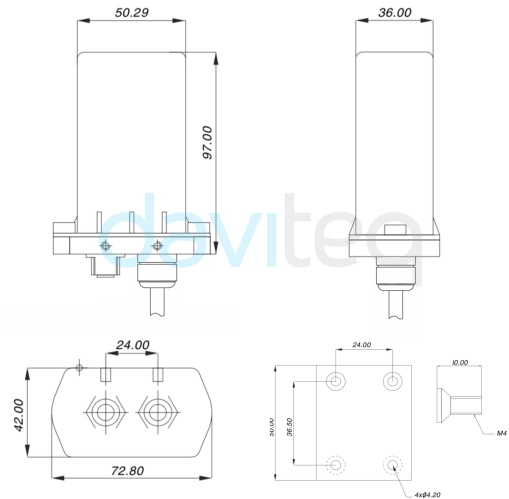
WSLRW-PT100-H4.PNG

LoRaWAN NETWORK



WSLRW-PT100-H5.PNG

DIMENSION DRAWING OF WIRELESS SENSOR (Unit: mm)



WSLRW-PT100-H6.PNG

RECOMMENDED BATTERIES

E91 AA Alkaline battery



-18 .. + 60 oC working temperature  
10-year shelf life  
3000 mAh Capacity  
Price: 1X

L91 AA Lithium battery



-40 .. + 60 oC working temperature  
20-year shelf life  
3500 mAh Capacity  
Price: 3.5X

WSLRW-PT100-H7.PNG

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WSLRW-PT100-H8.PNG

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## Ordering Information

| ITEM CODE      | DESCRIPTIONS  |
|----------------|---|
| WSLRW-PT100-01 | Wireless LoRaWAN PT100 Temperature Sensor, Internal antenna, Type AA battery 1.5VDC, IP67, 860-930MHz for all regions |

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4/4