

# LORAWAN THERMOCOUPLE TYPE K TEMPERATURE SENSOR



SKU: WSLRW-TCK

## LoRaWAN THERMOCOUPLE TYPE K TEMPERATURE SENSOR WSLRW-TCK



WSLRW-TCK-H1.PNG

WSLRW-TCK is LoRaWAN wireless sensor with modular design connected to Thermocouple type K 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, ...



### 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 & EASY CLEANING

IP67 design for both Indoor and Outdoor applications and easy cleaning

## CONNECT WITH THERMOCOUPLE TYPE K TEMPERATURE SENSOR



WSLRW-TCK-H2.PNG

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JAN-2021 | Doc No: WSLRW-TCK-DS-EN-10

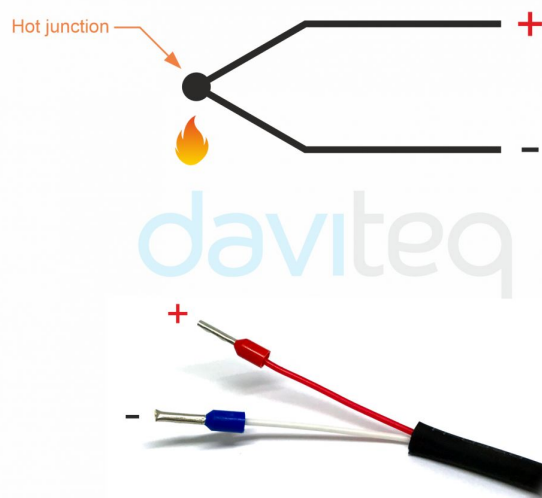
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## SPECIFICATION

Input	Thermocouple Type K Temperature Sensor
Accuracy	0.05%
Sensor port connector	PG9 Connector
Data rate	250bps .. 5470bps
Antenna	Internal Antenna 2.67 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	-15oC..+60oC (using L91 Energizer battery)
Dimensions	H180xW50xD40
Net-weight	250 grams
Housing	Polycarbonate & POM plastic, IP67

LoRaWAN SENSOR CONNECT WITH  
THERMOCOUPLE TYPE K SENSOR VIA PG9 CONNECTOR

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WIRING THE THERMOCOUPLE TYPE K  
TEMPERATURE SENSOR

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## LoRaWAN NETWORK



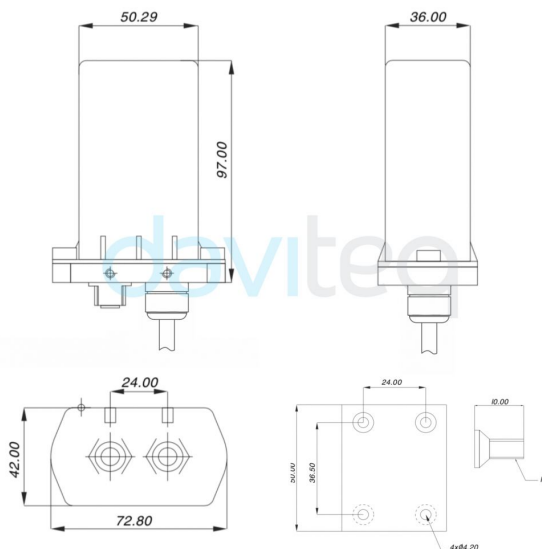
This wireless network can connect any kind wireless sensors:

- \* RELAY OUTPUTS FOR VALVE/PUMP CONTROLS;
- \* AIR HUMIDITY/TEMPERATURE SENSOR;
- \* CO2 SENSOR;
- \* AMBIENT LIGHT SENSOR;
- \* ...ETC

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## DIMENSION DRAWING OF WIRELESS SENSOR

(Unit: mm)



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## 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

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## ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
WSLRW-TCK-9-01	Wireless LoRaWAN Thermocouple Type K Temperature Sensor, Internal antenna, Type AA battery 1.5VDC, IP67, 900-930 Mhz for KR920, AS923, AU915, US915
WSLRW-TCK-8-01	Wireless LoRaWAN Thermocouple Type K Temperature Sensor, Internal antenna, Type AA battery 1.5VDC, IP67, 860-870 Mhz for EU868, IN865, RU864