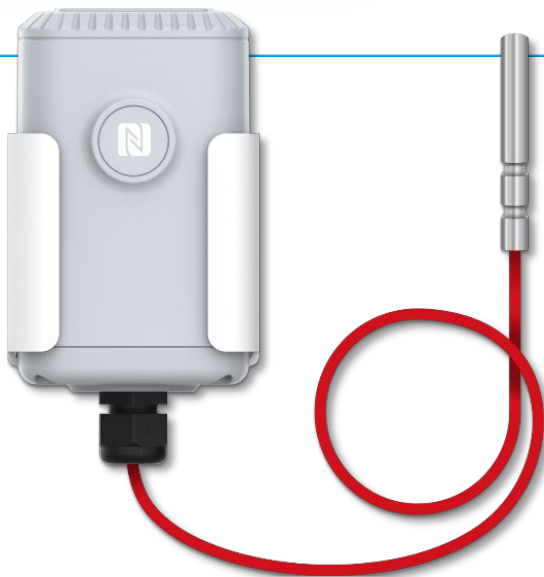


Industrial Temperature Sensor

MPC5122



MPC5122 resistance temperature sensor is designed for measuring wide range of temperature in harsh environments and transmitting data using wireless technology. With this low power consumption technology, MPC5122 can work up to 10 years with 19000 mAh battery. Combining with the MobiCom Pro gateway and IoT Cloud solution, users can manage all sensor data remotely and visually.

MPC5122 is widely used for temperature monitoring applications like industrial machines, ovens, pipes, etc.

◆ 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
- IP67 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 MobiCom Pro gateways and network servers
- Quick and easy management with IoT Cloud solution

◆ Scenarios

- 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/AS923-1&2&3&4
Tx Power	16dBm(868MHz)/20dBm(915MHz)/19dBm(470MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A
Measurement	
Connection Type	3-wire connection
Range	T050: -200 °C~50 °C T200: -50 °C~200 °C T500: -50 °C~500 °C T800: -50 °C~800 °C (Customizable from -200 °C~ 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)
Advanced Feature	Data Storage, Data Retransmission, Data Retrievability, Threshold Alarm, Change Alarm, D2D Controller
Transceiver Physical Characteristics	
Power Supply	1 × 19000 mAh ER34615 Li-SOCL ₂ Battery
Battery Life*	10 years (10 min interval, 25 °C)
Operating Temperature	-30°C~70°C
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP67
Dimension	105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in)
Installation	Pole, wall or DIN Rail Mounting
Sensor Physical Characteristics	
Probe Type	Straight tube, 304 Stainless Steel (Customizable)
Cable Length	1.5 m (Customizable)
Cable Material	Teflon
Cable Operating	-200 °C~290 °C

Temperature	
Ingress Protection	Differ based on temperature ranges
Approvals	
Regulatory	CE, FCC, ISED, ICASA, Telec
Environmental	RoHS

* Tested under laboratory conditions and for guideline purposes only.



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