

EM500-PT100

Temperature Sensor



EM500-PT100 resistance temperature sensor is designed for measuring wide range of temperature in harsh environments and transmitting data using LoRaWAN[®] technology. With this low power consumption technology, EM500-PT100 can work up to 10 years with 19000 mAh battery. Combining with Milesight LoRaWAN[®] gateway and Milesight IoT Cloud solution, users can manage all sensor data remotely and visually.

EM500-PT100 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
- > IP66 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 LoRaWAN[®] gateways and network servers
- > Quick and easy management with Milesight IoT Cloud solution

Applications

- 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			
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)			
Sensitivity	-147dBm @300bps			
Mode	OTAA/ABP Class A			
Measurement				
Connection Type	3-wire connection			
Range	T050: -200 °C to +50 °C			
	T200: -50 °C to +200 °C			
	T500: -50 °C to +500 °C			
	T800: -50 °C to +800 °C			
	(Customizable from -200 °C to +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)			
Physical Characteristics				
Cable Length	1.5 m (Customizable)			
Probe Type	Straight tube (Customizable)			
Power Supply	19000 mAh Li-SOCL ₂ battery (ER34615)			
Battery Life*	5 years (10 min interval, SF12)			
	>10 years (10 min interval, SF7)			
Operating Temperature	-30°C to +70°C			
Relative Humidity	0% to 100% (non-condensing)			
Ingress Protection	IP66			
Dimension	105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in)			
Installation	Pole, wall or DIN Rail Mounting			

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Milesight LoraWAN® Sensor/Controller LoraWAN® Cateway Industrial 46/56 Router				
Industrial Celuiar Router		LoRoWANE Gotoway	Compact IcRibWAHe Befendid Volve Controller Controller UCDAtcl/UCIts Ucont	
Picture	Model	Measuring Range	Descriptions	
	EM500-UDL-015M-W050 EM500-UDL-015M-W100	0.3 ~ 5m 0.5 ~ 10m	Ultrassel: Distance/Level Sensor 19000 m/h Li-SOCJ2 battery Besolution: 1 mm NFC enabled IPG6 rand	
ĮJ	EM500-PT100-915M-T50	-200°50°C	Temperature Sensor - PT100 15000 mAh Li-SOCI battery NFC enabled 1966 (JP67 m required)	
	EM500-PT100-915M-T500	-so-sco"C -so-sco"C	The default sensor head type is straight tabe, other types include arroured, SNT, threaded, and magnet. "Customizable cable length, default 1.5m "Customizable temperature (-200-1000 'C)	
ļ	EM500-SWL-915M-L003 EM500-SWL-915M-L005	3m 5m	Submersible Water Level Sensor 19000 mAh LI-SOCI2 bettery NFC enabled IF06 rand	
	EM500-5WL-915M-L010	10m	uno rand Custonizable measuring range up to 200m, cable should be 1-1.5m longer than measuring range.	
ļ	EM500-1.GT-915M-RY	0 ~ 100000 has	Light Senior 19000 mAh U-50C12 battery NFC enabled IPG5 rated	
ļ	EM500-5MT-015M-ECS	Moliture C% ~ 100% RH	Sol Sensor 15000 mAb U-SOCI2 battery	
] jan	EM500-5MTC-015M-MEC20	Temperature -40°C *80°C Moliture 0% ~ 100% RH Electrical Conductivity 0 ~ 20000 µn/cm	NITC enabled IPGG rated	
ļ	EM500-CD2-015M	CO2 400 ° 5000 ppm Temperature 400°C > 70°C Hamidity 0% ° 100% RH Barometric Presure 200 ° 1100 hPa	CO2 Sensor (4 in 1) 15000 mAh Li-SOCI2 battery NPC enabled IPG6 rand Bulk-in temperature, burnidity and barometric pressure sensors	
Į	EM500-PP-915M-G1/4F-4780	0~1.5 MPa	Pipe Pressure Sensor 19000 mAh Li-SOCI2 battery NFC enabled IPG6 rated	
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