

# EM500-PT100



## Temperature sensor

Designed for Harsh Environments and Long Battery Life

EM500-PT100 is ideal for application in harsh environments.

EM500-PT100 comes with

- Measurement of a wide temperature range
- 3-wire connection concept for high precision
- Corrosion resistant cable
- Multiple probe options
- IP66 enclosure

EM500-PT100 is serving applications for measurement of liquid and gas within commercial, public and industrial applications.

EM500-PT100 applies one replaceable 19000 mAh battery, providing up to 10-year battery life.

EM500-PT100 is equipped with NFC for mobile app configuration (Android and iOS).

USB-C and NFC is available for configuration via Notebook.

EM500-PT100 is compliant with standard LoRaWAN® gateways and network servers



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### 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

### Temperature

Connection type	3-wire
Ranges	EM500-PT100-T050: -200 °C to +50 °C EM500-PT100-T200: -50 °C to +200 °C EM500-PT100-T500: -50 °C to +500 °C EM500-PT100-T800: -50 °C to +800 °C
Accuracy	±0.5°C
Resolution	0.1°C



Gateway UG65

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### Physical characteristics

Probe type	Straight tube (Customizable)
Cable length	1.5 m (Customizable)
Power supply	One 19000 mAh Li-SOCL2 battery (ER34615)
Battery life at 10 min interval	>10 years (SF7) ~5 years (SF12) For guideline purposes only!
Operating Temp.	-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 and DIN-rail mounting

