



EM300-TH

Temperature & Humidity Sensor



► Introduction

EM300-TH sensor is a long range wireless sensor compatible with standard LoRaWAN protocol. Combining with the advanced LoRa technology and 4000mAh battery make it a low power consumption product with years-long use life. It integrates temperature and humidity sensors, which suits both indoor and outdoor environment monitoring applications.

► Features

- A robust and waterproof solution for temperature & humidity environment monitoring applications
- Up to 11 km communication range

- Easy configuration via NFC
- Standard LoRaWAN protocol
- Compliant with Ursalink Cloud and third-party platform
- Low power consumption with 4000 mAh replaceable battery

► Applications



► Specifications

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	
Temperature	
Range	-30°C to + 70°C
Accuracy	0°C to + 70°C (+/- 0.3°C), -30°C to 0°C (+/- 0.6°C)
Resolution	0.1°C
Humidity	
Range	0% to 100% RH
Accuracy	10% to 90% RH (+/- 3%), below 10% and above 90% RH(+/- 5%)
Resolution	0.5% RH
Operation	
Power On & Off	NFC, power button (Internal)

Configuration	Mobile APP(NFC) or PC software(NFC/USB Type-C)
Physical Characteristics	
Power Supply	1 × 4000 mAh ER18505 Li-SOCL ₂ battery (extendable to 2 batteries)
Battery Life	>5 years (10 min interval, SF10)
Operating Temperature	-30°C to +70°C
Ingress Protection	IP67
Dimension	88.5 × 85.3 × 27 mm
Mounting	Wall

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