

# Temperature & Humidity Sensor

Featuring LoRaWAN®

## NI300TH



NI300TH is a compact environment monitoring sensor for measurement of temperature and humidity and transmitting data using LoRaWAN® technology. With this low power consumption technology, NI300TH can work up to 5 years with 4000 mAh battery. Combining with LoRaWAN® gateway and IoT Cloud solution, users can manage all sensor data remotely and visually. NI300TH is widely used for both indoor and outdoor applications such as offices, hospitals, factories, greenhouses, etc.

### ◆ Features

- Embedded with Sensirion high-precision sensor chip
- Ultra-wide-distance transmission up to line of sight of 10km
- IP67 UV-resistant and waterproof enclosure for harsh environment applications
- Built-in 4000 mAh replaceable battery and works for 5 years without replacement
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with IoT Cloud solution

## ◆ Specifications

<b>Wireless Transmission</b>	
Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A
<b>Measurement</b>	
<b>Temperature</b>	
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
<b>Humidity</b>	
Range	0% to 100% RH
Accuracy	10% to 90% RH (+/- 3%), below 10% and above 90% RH (+/- 5%)
Resolution	0.5% RH
<b>Operation</b>	
Power On & Off	NFC, Power Button (Internal)
<b>Physical Characteristics</b>	
Power Supply	1 × 4000 mAh ER18505 Li-SOCL <sub>2</sub> battery (extendable to 2 batteries)
Battery Life*	10 years (10 min interval)
Operating Temperature	-30°C to +70°C
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP67
Dimension	88.5 × 85.3 × 27 mm (3.48 × 3.36 × 1.06 in)
Installation	Wall Mounting
<b>Approvals</b>	
Regulatory	CE, FCC, RoHS

\* Tested under laboratory conditions and for guideline purposes only.