

TEMPERATURE & HUMIDITY SENSOR

Overview

NETOP Temperature and Humidity sensor is a long range wireless sensor which measures temperature and the relative humidity of the air within a room. These sensors are perfect for monitoring ambient temperatures and humidity. This sensor is compatible with LoRaWAN technology. The standard version of this sensor is powered by one replaceable 3.6 V AA sized battery (included with purchase).

Key Features

- Real plug & play
- Easy to mount & install
- Compatible with LoRaWAN™ specification
- Maintenance free – install & forget
- Secure communication
- Ultra Low Power Consumption
- Certifications: LoRaWAN™, CE



Communication Specs

- The sensor uses Low Power Wide Area Network-LPWAN technology(LoRa) for connectivity
- Compliant with AS923, AU915, EU868, KR920, IN865 or US915 MHz ISM bands
- Low power consumption
- Long range wireless data transmission(upto 15km)
- Antenna Types: Internal(default) or External(depend on request) Antenna
- Radio Performance : Upto +14 dBm TX power and -137 dBm RX sensitivity

Mechanics

- Housing: ABS
- Dimensions: 65 x 55 x 27 mm
- Operating temperature: -40°C to +85°C

Data Security

- AES-128

Power Supply

- AA Battery 3.6 V Li-SOCl₂-Saft LS 14500 (Standard 1 piece)

Indicators

- RGB Status LED (on board)

Sensor Specifications

Measurement Range	:	-40 °C ~ +125 °C
	:	0-100 %RH
Accuracy	:	± 0.3° C
	:	± 2 %RH
Resolution	:	0.01 °C
	:	0.1 %RH
Data Transmission Period	:	15 minutes(default)

Certifications & Reliability

- LoRaWAN™ Certified
- CE
- EN 62479

- EN60950
- EN 301 489-1
- EN 301 489-17
- EN 300 328

Applications

- Real Time Remote Monitoring of Freezer and cooler
- HVAC system monitoring
- Server Room Monitoring
- Cadaver storage cooler

- Greenhouse temperature and humidity monitoring
- Art gallery and museum environment monitoring
- Agricultural environmental monitoring
- Humidor monitoring