

# LoRa Temperature & Humidity Sensor

## Product Brief

### Description

LTH5200 series is a LoRa based temperature and humidity sensor designed to measure temperature and humidity of its surroundings immediately. This product is integrated with high sensitivity humidity sensor and temperature sensor, optimized for low power usage which will run years on one set of batteries. The LoRa wireless connection to the internet allows widespread deployments.



### Features

- **Multi-function:** Support calendar, Temperature, humidity and night light.
- **Communication via LoRa:** communication range up to 3-5KM line-of-sight, 1~3KM in dense urban, compatible with any LoRaWAN™ network.
- **Long Battery Life:** Each device is equipped with two replaceable AAA battery, battery life as long as 1 year according to usage, a notification is sent when the battery power falls below 20%.
- **Automatic measurements:** The measurements are made at a configured frequency and automatically send to the LoRaWAN™ network.
- **Real-time Alarm:** When the one of the temperature sensors or humidity reaches a value outside the set range an alarm is sent.
- **Cost-effective:** monitor large sites with fast and easy deployment.
- **Reduce financial loss:** ensure quality control for products and manage public health and sanitary risks.

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### Specification

Parameters	Specification
Modulation	LoRa Modulation Patented by Semtech
Frequency Band	433~510MHz/868~928MHz , Optional
Power Supply	microUSB +5VDC or 2*AA 1.5V batteries
Battery life	2* AA 1.5V battery , more than 1 years
LED indicator	Configurable
Operating Temperature	-10~ +65°C
Resolution	Temperature: 0.1°C/Humidity:1%RH
Operating Humidity	0%~99%RH ( Non - Condensing )
Measurement Accuracy	Temperature: $\pm 1^{\circ}\text{C}$ , Humidity: $\pm 3\%RH$
Dimensions	130*75*22mm
LoRa Antenna	Build in antenna.

### Application

- Indoor and outdoor environments such as home, offices, hotels, restaurants, schools , shopping malls, waiting rooms , hospitals, gardens ,greenhouses and animal husbandry.
- Cold-chain logistics, computer rooms, Workshops, laboratories and warehouses for the electronics, chemical and biomedical industries.

