LoRa Temperature&Humidity Sensor
Product Brief

Description

LTH5200 series is a LoRa based temperature and humidity sensor designed to measure temperature and humidity of it's surroundings immediately. This product 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

- **Communication via LoRa** : communication range up to 3-5KM line-of-sight , 1~3KM in dense urban , compatible with any LoRaWAN^{TM} network.

- **Long Battery Life** : Each device is equipped with two replaceable AAA battery , battery life as long as 1 year according @ 60mins uplink duty cycle, 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^{TM} network .

- **Real-time Alarm** : When one of the temperature sensors or humidity reaches a value outside the set range an alarm is send.

- **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	863~870MHz or 902~928MHz,Optional
Communication range	1~3KM in dense urban , 3~5KM LoS
Power Supply	2*AAA 1.5V batteries
Battery life	More than 1 years @ 60mins transmit interval
Operating Temperature	-20~+65℃
Resolution	Temperature: 0.1℃/Humidity:1%RH
Operating Humidity	0%~99%RH (Non - Condensing)
Measurement Accuracy	Temperature: ±1℃, Humidity:±3%RH
Dimensions	130*75*22mm
LoRa Antenna	Build in antenna.

Application

- home, offices, hotels, restaurants, schools , shopping malls, waiting rooms , hospitals, gardens, green houses and animal husbandry.

- Cold-chain logistics, computer rooms, Workshops, laboratories and warehouses for the electronics, chemical and biomedical industries.

Smart home · laboratories · chemical workshops · Cold-chain logistics · Computer rooms · Warehouses