

S07-TH ZigBee Wireless Air Temperature and Humidity Logger Tag



Features and Benefits

- High Precision temperature and humidity sensor and logger for 12000 readings.
- Compatible with ZigBee Home Automation/ Retail Service solution integrated with SentrolCloud for constant data collection, out-limit alarm and automated environment control.
- 100 meters/ 328 feet wireless transmission range (Free space).
- IP66 grade water-proof & dust-tight suited to harsh environment.
- Powered by 1 freezer battery with a battery life of 18 months under 5 minutes internal.
- Ultra miniature size suited to place in almost any environment.

Product description:

S07-TH-HB (RB): the Low Temperature sensor (log tag) is a small and easy-to-install temperature sensor that provides accurate and reliable data of temperatures ranging from -20°C to 50°C.

S07-TH-HB (RB) is an idea product for monitoring of frozen, chilled and hot food storage displays used in all retail areas of supermarket chains, service stations, or any temperature/ humidity control needed area.

Since the working environment for cold chain could be humid, therefore, S07-TH-HB (RB) has certified IP66 water-proof & dust-tight by SGS lab. Logistics at sea sometimes takes longer than 3 months from source to destinations, as a result, STH-07-HB (RB) provides battery life over 18 months based on 5 minutes logging interval.

By using the ZigBee network, tags can transmit the data information automatically to the temperature monitoring system to provide the user with real-time temperature readings. The use of the Temperature Log Tag significantly reduces human error, labor inefficiencies, and uncertainty in temperature sensitive environments.

Specifications

Sensing Type	Temperature and humidity (option: RSSI)
Sensing Range	Temperature: -20°C to 50°C (-4°F to 122°F)
Measurement Accuracy	± 0.5 °C/ 4.5% RH
Addressing	IEEE MAC 64 bit
Wireless Protocol	IEEE 802.15.4 ZigBee2007/PRO ZHA & ZRS Profile
Transmission Range	100 meters / 328 feet (Free space)
Operating Frequency	2.4GHz ISM Band
RF Output Power	0 dBm
Receiver Sensitivity	-92dBm
Waterproof Level	IP66 grade water-proof & dust-tight protection
Power Consumption	TX: 30mA / Sleep: 7µA

Transmit Interval (For Logger Tag)	Set by TagView (10 seconds – 24 hours)
Network Topology	Star/ Tree/ Mesh
Power Supply	Ultra Low Temp. Lithium battery *1
Dimensions	22 *26.5 *66.6 mm
Weight	30 g (including battery)
Data Log Tag Memory	12,000 readings for both temperature & humidity
Certifications	CE/ FCC
Battery Life	18 months based on sending data per 5 minutes
Data Receiving Interface	DataView for sensor, TagView for tag
Mode Selection	Sensor mode for STH-07-HB; Tag mode (Beacon/Non-beacon) for STH-07-RB

ZigBee Complete Solution

