LoRaWAN Temperature & Humidity Sensor

LSN50v2-S31B

OVERVIEW:

The Dragino LSN50v2-S31B is a LoRaWAN Temperature and Humidity Sensor for Internet of Things solution. It is used to measure the surrounding environment temperature and relative air humidity precisely, and then upload to IoT server via LoRaWAN wireless protocol.

The temperature & humidity sensor used in LSN50v2-S31B is SHT31, which is fully calibrated, linearized, and temperature compensated digital output from Sensirion, it provides a strong reliability and long-term stability. The SHT31 is fixed in a waterproof anti-condensation casing for long term use.

LSN50v2-S31B supports temperature and humidity alarm feature, user can get alarm for instant notice.

LSN50v2-S31B is powered by 8500mAh Li-SOCI2 battery, It is designed for long term use up to 10 years. (Actually Battery life depends on the use environment, update period.Please check related Power Analyze report).

Each LSN50v2-S31B is pre-load with a set of unique keys for LoRaWAN registration, register these keys to local LoRaWAN server and it will auto connect after power on.

Features:

- LoRaWAN v1.0.3 Class A
- Ultro low power consumption
- Measure range -40°C ~ 80°C
- Temperature and humitidy alarm
- Bands: CN470/EU433/KR920/US915
- EU868/AS923/AU915/IN865
- AT Commands to change parameters
- Uplink on periodically
- Downlink to change configure

Sensor Spec:

Temperature Sensor:
- Range: -40 to + 80°C
- Accurancy: ±0.2 @ 0-90 °C
- Resolution: 0.01°C
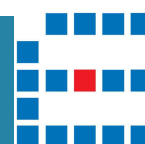- Long Term Shift: <0.03 °C/yr

Humidity Sensor:
- Range: 0 ~ 99.9% RH
- Accurancy: ± 2%RH (0 ~ 100%RH)
- Resolution: 0.01% RH
- Long Term Shift: <0.25 %RH/yr

Order Info- LSN50v2-S31B-XX

XX:
- XX: Frequency Bands, options: EU433,CN470,EU868,IN865,KR920 AS923,AU915,US915

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