

# LoRaWAN Temperature Sensor

## LSN50v2-D20



## OVERVIEW:

The Dragino LSN50v2-D20 is a LoRaWAN Temperature Sensor for Internet of Things solution. It is used to measure the air, liquid or object temperature, and then upload to IoT server via LoRaWAN wireless protocol.

The temperature sensor used in LSN50v2-D20 is DS18B20 chipset, which can measure  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  with accuracy  $\pm 0.5^{\circ}\text{C}$  (max  $\pm 2.0^{\circ}\text{C}$ ). The sensor cable is made by Silica Gel, and the connection between metal probe and cable is double compress for waterproof, moisture-proof and anti-rust for long term usage.

LSN50v2-D20 support temperature alarm feature, user can set temperature alarm for instant notice.

LSN50v2-D20 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-D20 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
- Ultra low power consumption
- External DS18B20 Probe (default 2meters)
- Measure range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$
- Temperature alarm
- Bands: CN470/EU433/KR920/US915
- EU868/AS923/AU915/IN865
- AT Commands to change parameters
- Uplink on periodically
- Downlink to change configure

Order Info- LSN50v2-D20-XX  
XX:

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