

# LoRaWAN Temperature & Humidity Sensor

## LHT52



## OVERVIEW:

The Dragino LHT52 Temperature & Humidity sensor is a Long Range LoRaWAN Sensor. It includes a **built-in Temperature & Humidity** sensor and has a USB Type-C sensor connector to connect to external sensors such as external Temperature Sensor.

LHT52 **senses environment temperature and humidity** and send these values via long-range wireless LoRaWAN protocol. It targets professional wireless sensor network applications such as food service, smart metering, smart cities, building automation, and so on.

LHT52 supports **2 x AAA batteries** and works for a long time up to several years. Use can replace the batteries easily after they are finished.

LHT52 is fully compatible with **LoRaWAN v1.0.3 protocol**, it can work with standard LoRaWAN gateway.

LHT52 supports **Datalog Feature** to make sure users won't miss sensor data. It records sensor value for every uplink. These values can be retrieved by LoRaWAN server via downlink command.

LHT52 supports **temperature alarm feature**. It can uplink alarm in a short interval while temperature exceeds preset limits.

## Features:

- Wall Attachable
- Optional External Sensors
- LoRaWAN Class A protocol
- 2 x AAA LR03 1.5v batteries
- Temperature alarm feature
- Tri-color LED to indicate status
- Datalog and retrieve by LoRaWAN
- AT Commands to change parameters
- Firmware upgradable via program port
- Built-in Temperature & Humidity sensor
- Remote configure via LoRaWAN Downlink

## Environment:

- Working Temperature: -20~ 50°C
- IP Rating: IP52

## Package:

- Dimension: 5.8 x 5.8 x 2.0 cm
- Package Include: LHT52
- Package Not Include: Batteries, External Temperature Sensor

## Sensor Spec:

### Built-in Temperature Sensor:

- Range: -20 ~ +50 °C
- Accuracy:  $\pm 0.3^{\circ}\text{C}$
- Resolution:  $0.01^{\circ}\text{C}$

### Built-in Humidity Sensor:

- Range: 0 ~ 99.9% RH (no dew)
- Accuracy:  $\pm 3\% \text{RH}$  (20 ~ 80%RH)
- Resolution: 0.1% RH
- Response Time: < 8s

### External Temperature Sensor:

- Resolution: 0.0625 °C
- MAX  $\pm 0.5^{\circ}\text{C}$  accuracy from -10 to 85°C
- Max  $\pm 2^{\circ}\text{C}$  accuracy from -55 to +125°C
- Cable Length 2 meters
- Order Separately (P#: AS-01)

## Order Info:

### LHT52-XXX

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