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DRAGINO LHT52 LoRaWAN Temperature and Humidity Sensor User Manual

**LoRaWAN Temperature & Humidity Sensor
LHT52**

Contents

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 the external Temperature Sensors.

LHT52 **senses environment temperature and humidity** and sends 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 the **LoRaWAN v1.0.3 protocol**, it can work with the standard LoRaWAN gateway.

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

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

Features.

- Wall Attachable
- LoRaWAN Class A protocol
- AT Commands to change parameters
- Remote configure via LoRaWAN Downlink
- Firmware upgradable via program port
- 2 x AAA LRO3 1.5v batteries
- Built-in Temperature & Humidity sensor
- Optional External Sensors
- Tricolor LED to indicate the status
- Datalog and retrieve by LoRaWAN
- Temperature alarm feature

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
- Accurancy: 0.3°C
- Resolution: 0.01°C

Built-in Humidity Sensor:

- Range: 0 – 99.9% RH (no dew)
- Accurancy: * 3%RH (20 – 80%RH)
- Resolution: 0.1% RH
- Response Time: < 85

External Temperature Sensor:

- Resolution: 0.0625 °C
- MAX *0 5°C accuracy from -10 to 85°C
- Max *2°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

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

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LHT52, ZHZLHT52, LHT52 LoRaWAN Temperature and Humidity Sensor, LHT52, LoRaWAN Temperature and Humidity Sensor