

LoRaWAN Temperature, Humidity & PIR Sensor

LHT65N-PIR



OVERVIEW:

The Dragino LHT65N-PIR Temperature, Humidity & PIR sensor is a Long Range LoRaWAN Sensor. It includes a **built-in Temperature & Humidity sensor** and has an **external PIR Probe**. LHT65N-PIR can detect environment Temperature & Humidity, it also detects **People Activity** via PIR probe and then send these info to LoRaWAN IoT Server.

The LHT65N-PIR allows users to send data and reach extremely long ranges. It provides ultra-long range spread spectrum communication and high interference immunity whilst minimizing current consumption. It targets professional wireless sensor network applications such as irrigation systems, smart metering, smart cities, building automation, and so on.

LHT65N-PIR has a **built-in 2400mAh non-chargeable battery** which can be used for more than 5 years*.

LHT65N-PIR supports **wireless configure & OTA update** which make user easy to use.

LHT65N-PIR is fully compatible with **LoRaWAN v1.0.3 Class A protocol**, it can work with a standard LoRaWAN gateway.

**The actual battery life depends on how often to send data, please see battery analyzer chapter.

Features:

- LoRaWAN v1.0.3 Class A protocol
- Bands: CN470/EU433/KR920/US915/EU868/AS923/AU915
- AT Commands to change parameters
- Remote configure parameters via LoRaWAN Downlink
- Support wireless OTA update firmware
- Firmware upgradable via program port
- Built-in Temperature & Humidity sensor
- Built-in 2400mAh battery for up to 5 years of use
- External PIR Sensor
- Tri-color LED to indicate working status

Sensor Spec:

Built-in Temperature Sensor:

- Resolution: 0.01°C
- Accuracy Tolerance : Typ ± 0.3 °C
- Long Term Drift: < 0.02 °C/yr
- Operating Range: -40 ~ 85 °C

Built-in Humidity Sensor:

- Resolution: 0.04 %RH
- Accuracy Tolerance : Typ ± 3 % RH
- Long Term Drift: < 0.02 °C/yr
- Operating Range: 0 ~ 96% RH

External PIR Sensor:

- Base on RDB223 Sensor
- Cable Length : 1 meter
- Stable detect distance : 0~3 meter

Order Info: LHT65N-PIR-XX

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