

# Temperature & Humidity Sensor

## LHT65N-E5



## OVERVIEW:

The RS **LHT65N-E5 Temperature, Humidity & Illuminance sensor** is a Long Range LoRaWAN Sensor. It includes a **built-in Temperature & Humidity sensor** and has an external **Illuminance sensor**.

The LHT65N-E5 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-E5 has a **built-in 2400mAh non-chargeable battery** which can be used for more than 10 years\*.

LHT65N-E5 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:

- External Illuminance Sensor
- Tri-color LED to indicate status
- LoRaWAN v1.0.3 Class A protocol
- Firmware upgradable via program port
- AT Commands to change parameters
- Built-in Temperature & Humidity sensor
- Remote configure parameters via LoRaWAN Downlink
- Built-in 2400mAh battery for more than 10 years of use
- Bands: CN470/EU433/KR920/US915/EU868/AS923/AU915

## Sensor Spec:

### Built-in Temperature Sensor

- Resolution: 0.01°C
- Accuracy Tolerance : Typ  $\pm 0.3$  °C
- Long Term Drift: < 0.02 °C/yr
- Operating Range: -40 ~ 80 °C

### Built-in Humidity Sensor:

- Resolution: 0.04 %RH
- Accuracy Tolerance : Typ  $\pm 0.3$  RH
- Long Term Drift: < 0.02 °C/yr
- Operating Range: 0 ~ 96 %RH

### External Illuminance Sensor:

- Base on BH1750 Illumination Sensor
- Cable Length : 50cm
- Resolution: 1 lx
- Range: 0-65535 lx
- Operating Range: -40 °C ~ 85 °C

## Order Info: LHT65N-E5-XX

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