

LoRaWAN Temperature and Humidity Sensor

DESCRIPTION

RisingHF temperature and humidity sensor offers cost effective LoRaWAN end node solution for a variety of applications. Its reliable and low power design allows a battery operation up to 5 years without any maintenance. IP64 enclosure concept and water splash proof unique sensor design is ideal for outdoor use and installation in low accessibility locations. Sensor acquisition rate could be adjusted via LoRaWAN Class A downlink capability and permit to manage the battery life or the measurements capacity according to the needs of the application.

RisingHF sensors family is fully compatible and plug & play for LoRaWAN network operation.



APPLICATIONS

- Heating
- Drying
- Ventilation & air conditioning systems
- Weather station
- Refrigeration equipment
- Building automation

FEATURES

- Powered by lithium-thionyl chloride battery: 5 years of operation for 1 uplink per minute.
- Extended industrial operating temperature: -40°C to +85°C.
- Outdoor use: IP64 enclosure.
- Accuracy: ±5% RH
 - typically from 20% RH to 80% RH at 25°C.
 - ±0.5°C typically from +5°C to +60°C.
- LoRaWAN compatible: Class A, uplink rate programmable from 1 minute to 24 hours.
- Configurable Region Parameters:
EU868 / US915 / US915HYBRID / CN779 / EU433 / AU915 / AU915OLD
CN470 / AS923 / KR920 / IN865
- Operating frequency bands (Option at order):
 - Radiated power: <10mW@434MHz, <50mW@470MHz, <25mW@868MHz, <25mW@920MHz.

ORDERING INFORMATION

| Part Number | Freq Plan | 434/470MHz Max TX Power (dBm) | 868/915MHz Max TX Power (dBm) |
|---------------------|---|--|--|
| RHF1S001-434 | EU433 | 20 | - |
| RHF1S001-470 | CN470 | 20 | - |
| RHF1S001-868 | EU868, IN865 | - | 14 |
| RHF1S001-915 | US915, US915Hybrid, AU915 AS923, KR920 | - | 14 |

CONTACT

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