

Wireless LoRa WAN Temperature and Humidity Sensor.

Description

RisingHF temperature and humidity sensor offers cost effective LoRa WAN 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 are ideal for outdoor use and installation in low accessibility locations.

Sensor acquisition rate could be adjusted via LoRa WAN Class A downlink capability and permit to manage the battery life or the measurements capacity according to the needs of the application.

Rising HF sensorsfamily is fully compatible and plug & play for LoRa WAN 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: $\pm 5\%$ RH typically from 20% RH to 80% RH at 25°C.
 $\pm 0.5^\circ\text{C}$ typically from +5°C to +60°C.
- LoRa WAN compatible: Class A, uplink rate programmable from 1 minute to 24 hours.
- Operating frequency bands (Option at order):
 - 434MHz, <10mW radiated power.
 - 868MHz, <25mW radiated power
 - 920MHz, <25mW radiated power.

