

LoRaWAN Home Health Sensor

DESCRIPTION

RisingHF RHF1S020 Series sensors are designed for indoor intelligent building and Healthy Home applications. Home Health Sensor device includes a Temperature Humidity sensor and a Volatile Organic Compound sensor. The second VOC sensor requires the first Temperature Humidity to compensate for its operating conditions. The ideal using case is to place the sensor in a room to detect temperature, humidity and if the air quality is in good range. It is powered up via a common 3.6V ½ AA Lithium Thionyl Chloride battery, typical battery life 1 years without maintenance. Home Health Sensor has two working mode, Periodic reporting mode and threshold Alarm mode which are user configurable. RHF1S020 Sensors support plug & play for global LoRaWAN network operation.



APPLICATIONS

- Intelligent Building
- Security
- Home Health
- Smart Office
- Energy saving

FEATURES

- ◆ RF TX power up to 19dBm, Sensitivity down to -140dBm
- ◆ Proprietary RisingHF LAP protocol, Enrich device management and control, Downlink parameter configure
- ◆ Global LoRaWAN scheme support, plug and play for user
- ◆ Full frequency band 470/868/915MHz available
- ◆ Multi- Application mode , Periodic reporting mode and threshold alarm mode which are user configurable
- ◆ Temperature with $\pm 0.3^{\circ}\text{C}$ measurement tolerance and Humidity with $\pm 3\% \text{RH}$ tolerance

- ◆ Enhanced dual-LED, more friendly user indication interface
- ◆ High performance antenna design: -4dBi peak gain @470 MHz, -2dBi peak gain @868/915 MHz
- ◆ Upgrade over the air, easy for maintenance
- ◆ Field testing mode to evaluate Network quality
- ◆ Optimized power consumption, typical for 1 year battery life
- ◆ 3M adhesive installation, easy to deploy

ORDERING INFORMATION

Model	Description
RHF1S020HHS-470	Home Health Sensor, 470MHz
RHF1S020HHS-868	Home Health Sensor, 868MHz
RHF1S020HHS-915	Home Health Sensor, 915MHz

CONTACT

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