

Fire Extinguisher Monitoring Sensor RHF1SFE2

PRODUCT BRIEF

RHF1SFE2 is a LoRaWAN® Low power Fire Extinguisher Monitoring Sensor node, it integrates dedicated gas pressure sensor for Fire extinguisher, 3-axis acceleration sensor, obstacle sensor and temperature sensor. It aims for the application of fire extinguisher monitoring, to achieve management and maintenance of fire extinguisher.

After Sensor activated, it can periodically report temperature, gas pressure, battery level, tilt angle and obstacle condition. Likewise, it will report proactive alarm: temperature alarm, displacement alarm, gas pressure alarm, tilt alarm, obstacle alarm, low battery level alarm.

Through the specific interface, User can configure device parameters and upgrade firmware.

RHF1SFE2 is powered by re-chargeable battery , capacity 2000mAh, the typical battery life is 2 years.

The operating temperature is -20~70℃, Product Form is ABS casing with metal fitting parts, Easy to use for fire extinguishers through threaded installation.



APPLICATION

- Handheld fire extinguisher
- Intelligent fire protection

FEATURES

- ◆ Communication network : LoRaWAN®
- ◆ Support LoRaWAN® Relay Slave mode
- ◆ Wireless output power : max TXOP=22dBm
- ◆ Antenna : internal antenna
- ◆ Lower power : sleep current 20uA , Average working current 50uA
- ◆ Re-chargeable battery, typical battery life is 2 years
- ◆ Multiple sensors :

- ✓ Gas pressure sensor, monitoring the fire extinguisher gas pressure status
- ✓ 3-axis acceleration sensor, monitoring the fire extinguisher position state
- ✓ Temperature sensor, to measure the ambient temperature
- ✓ Obstacle detection sensor, to detect any obstacle in front of fire extinguisher
- ✓ Battery level, to measure the battery capacity condition
- ✓ Hall sensor, to detect magnet approaching, used to query or activate device
- ◆ User interface
 - ✓ Battery charge : USB Type C
 - ✓ Configure and Firmware upgrade : infra-red photodiode
 - ✓ Adapter for Fire Extinguisher Outer diameter of thread
- ◆ Periodic report of fire extinguisher status: temperature, gas pressure, battery level, obstacle condition. The uplink period parameter is configurable.
- ◆ proactive alarms: temperature alarm, displacement alarm, abnormal air pressure alarm, obstacle alarm, low battery level alarm
- ◆ Operating temperature : -20~70°C
- ◆ Ingress Protection : IP53
- ◆ Installation : threaded installation

ORDERING INFORMATION

Model	Description
RHF1SFE2-US915-Mx	intelligent extinguisher sensor, LoRaWAN, band US915 , suffix Mx to define Fire Extinguisher Outer diameter of thread*
RHF1SFE2-AU915-Mx	intelligent extinguisher sensor, LoRaWAN, band AU915 , suffix Mx to define Fire Extinguisher Outer diameter of thread
RHF1SFE2-AS923-Mx	intelligent extinguisher sensor, LoRaWAN, band AS923 , suffix Mx to define Fire Extinguisher Outer diameter of thread
RHF1SFE2-CN470-Mx	intelligent extinguisher sensor, LoRaWAN, band CN470 , suffix Mx to define Fire Extinguisher Outer diameter of thread

*Mx Fire Extinguisher Outer diameter of thread available:

- M8
- M10
- others

CONTACT

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