

WISE-2410

LoRa/LoRaWAN Wireless Smart Vibration Sensor

Preliminary



Features

- Built-in vibration and temperature sensor
- Directly transmit vibration feature value (e.g. Velocity RMS, g peak & RMS)
- No power and communication wiring
- LoRa/LoRaWAN wireless technology
- Follow industrial standard installation
- Compliant with ISO 10816
- IP66

Common Specification

Wireless Communication

- **Frequency Band** EU 863-870 (MHz)
US 902-928 (MHz)
- **Spreading Factor** 7~12
- **Transmit Power** Up to 20dBm
- **Topology** Star (LoRa/LoRaWAN)
- **Sensitivity** -148dB
- **Data Rate** 50 kbps at FSK mode EU868
21.9 kbps at SF7 mode US915

General

- **Power Input** 3.6VAA Battery*2pcs (Not included)
- **LED Indicator** Power, Tx
- **Configuration Interface** Micro-BUSB
- **IP Class** IP66
- **Mounting** Stud mount, Mounting pad and adhesives
- **Dimension (H x D)** 84.7 x 48.3 mm
- **Certification** CE (RED), FCC, NCC

Environment

- **Operating Temperature** -20~50°C
- **Operating Humidity** 10~95% RH
- **Storage Temperature** -25~70°C
- **Storage Humidity** 5~95% RH

Vibration Sensor

- **Axis** X-Y-Z
- **Frequency Range** 10~1000Hz
- **Amplitude Range** ±16g
- **Detection type** Velocity RMS, Acceleration (RMS & peak)
Advanced: Kurtosis, Crestfactor, Skewness, Standard deviation
- **Output Data Rate** 3200Hz
- **Resolution** 10 bit (all grange)
- **Sensitivity (TYP.)** 31.2mg/LSB
- **0g offset (MAX.)** ±150mg

Temperature Sensor

- **Operating Range** -20~50°C
- **Resolution** 12 bit
- **Accuracy** ±2°C

Ordering Information

Smart Vibration Sensor

- **WISE-2410-NA** Wireless Smart Vibration Sensor - NA
US 902-928 (MHz)
- **WISE-2410-EA** Wireless Smart Vibration Sensor - EA
EU 863-870 (MHz)

Accessories

- **1760002647-01** Bat. Cylindrical 3.6V/2500mAh AA Li/SOC12

