



## Common Specification

### Wireless Communication

- **Frequency Band** EU 863-870 (MHz) / RU 864-870 (MHz)  
US 902-928 (MHz) / AU 915-928 (MHz)  
AS 919-924 (MHz) / TH 920-925 (MHz)  
JP 920-928 (MHz)
- **Spreading Factor** 7-12
- **Transmit Power** Up to 20dBm
- **Topology** Star (LoRa/LoRaWAN)
- **Sensitivity** -148dB
- **Data Rate** 50 kbps at FSK mode EU  
21.9 kbps at SF7 mode US/TW  
5.47 kbps at SF7 mode for JP

### General

- **Power Input** 3.6V AA Battery \*2pcs (Not included)
- **Battery Life** 2 years (once per hour data update interval time)
- **LED Indicator** Power, Tx
- **Configuration Interface** Micro-B USB
- **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, TELEC, VCCI, BSMI, RCM, ANATEL

### Environment

- **Operating Temperature** -20°C ~ 80°C (Battery powered)
- **Operating Humidity** 10% ~ 95% RH
- **Storage Temperature** -25°C ~ 90°C
- **Storage Humidity** 5% ~ 95% RH

## 3-Axis Accelerometer Sensor

- **Axis** X-Y-Z
- **Frequency Range** 10-1000Hz
- **Amplitude Range** ±2/4/8/16g
- **Statistical Time-Domain** Velocity RMS, Acceleration (RMS & peak), Displacement, Kurtosis, Crest factor, Skewness, Standard deviation
- **Output Data Rate** 3200Hz@WISE-2410-xA  
6600Hz@WISE-2410-xB
- **Resolution** 10 bit (all g range)
- **Sensitivity (TYP.)** 31.2mg/LSB
- **Noise (MAX. TA = 25°C. 0g)** ±150mg@WISE-2410-xA  
±75mg@WISE-2410-xB
- **Nonlinearity** ±0.5 %
- **Cross-Axis Sensitivity** ±1 %
- **Sensitivity Change Due to Temperature** ±0.02 %/°C

## Temperature Sensor

- **Measurement Range** -20°C ~ 120°C
- **Accuracy** -2°C with 85°C  
(TA = 27°C, Directly contact with heat source)  
-5°C with 120°C  
(Metal Base of WISE-2410)

## Ordering Information

### Smart Condition Monitoring Sensor

- **WISE-2410-NA/ WISE-2410-NB** Wireless Smart Condition Monitoring Sensor - US 902-928 (MHz)

#### Firmware Image (Optional)

9662410AJ00	WISE-2410-JA Patch
9662410AT00	WISE-2410-TA AS923 Patch
9662410AK00	WISE-2410-KA Patch
9662410AZ00	WISE-2410-ZA AU915 Patch

- **WISE-2410-EA/ WISE-2410-EB** Wireless Smart Condition Monitoring Sensor - EU 863-870 (MHz)

#### Firmware Image (Optional)

96632410R00	WISE-2410-RA Patch
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### LoRaWAN Gateway

- **WISE-6610-N100-A** LoRaWAN gateway supports up to 100 nodes with 915 MHz
- **WISE-6610-E100-A** LoRaWAN gateway supports up to 100 nodes with 868 MHz
- **WISE-6610-A100-A** LoRaWAN gateway supports up to 100 nodes with 923 MHz

### Accessories

- **1760002647-01** Bat.Cylindrical 3.6V/2500mAh AA Li/SOCI2
- **25F7000004N000** Magnet base D30XH9mm for WISE-2410 installation
- **WISE-2410-MTB01** Metal base for WISE-2410 installation

