

RM-IoT-B

Predictive Maintenance Solution
Rotor Online Monitoring

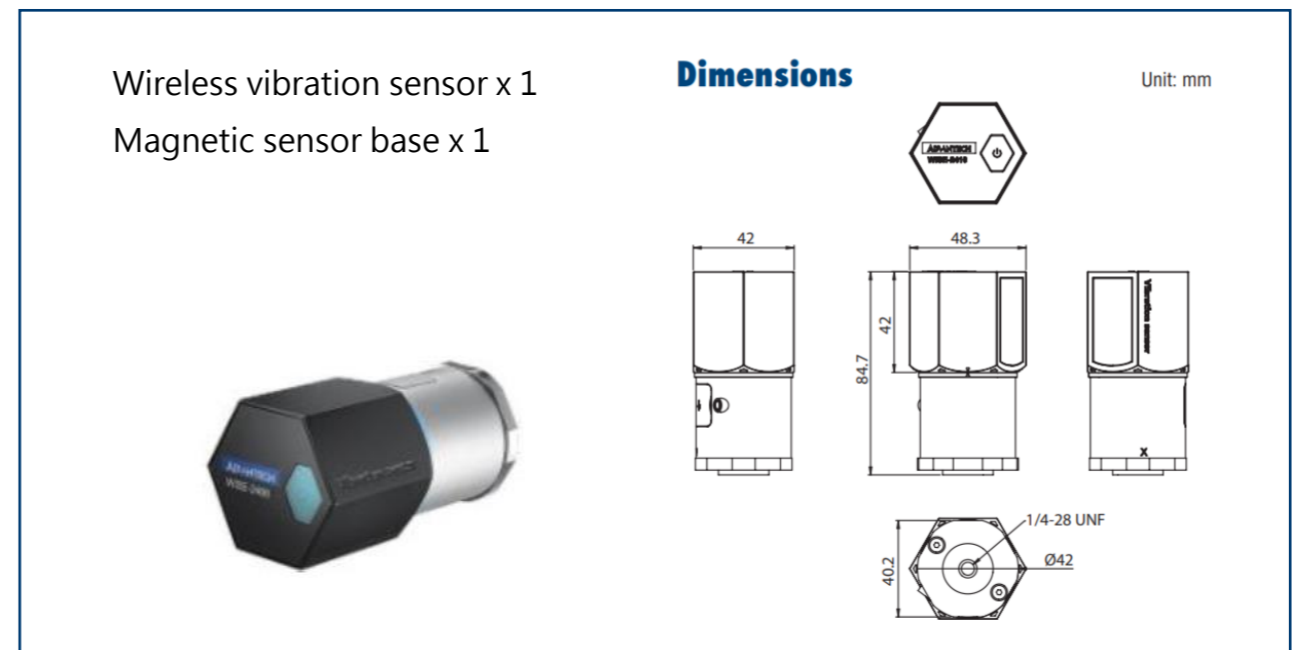
LoRa LPWAN



- Rotor Quality
- Temp. Monitor
- Vibration Value Threshold
- AI Degradation Inference

Specification	
RM-IOT-B System	
Target measured object	All rotating machinery
Diagnostic display	ISO norm (ISO20816 / ISO10816) criticality trend
	Temperature alarm
	X, Y, Z Vibration parameter criticality trend(Velocity in RMS, Acceleration in o to Peak/ RMS, Displacement in Peak to Peak, Kurtosis, Crest Factor, Skewness, Deviation)
	AI degradation criticality trend (Optional)
Alarm notification	Line APP & Mail message
Display units	Acceleration: g ; Velocity: mm/s ; Displacement: mm
Control Console	Dashboard, Pie chart, Tabular summary, Equipment schematic graphics, Measuring point drawings
Data export	All measurements in CSV format
RM-IOT-B Vibration kit	
Gateway	923 MHz ; support up to 100 nodes ; 1x RJ45 Ethernet port, 4-way Molex mini-fit connector ; Dimension: 150(W) x 37.5 (H) x 83 (D) mm(5.9 x 1.48 x 3.27 in.) Operating Temperature: -40°C to 75°C (-40°F to 167°F) ; Storage Temperature: -40°C to 80°C (-40°F to 176°F) ; DIN-rail / Wall mounting supportive ; IP30 certified
Triaxial Accelerometer(X, Y, Z)	Powered by 3.6V AA Battery *2pcs ; Frequency range: 10-1000Hz ; Operating Temperature: -20 to +85 °C (-4 to +185°F) ; Dimension (H x D): 84.7 x 48.3 mm ; IP 66 certified

Order guide	
Option 1: Main system with Max.10 measurement points	RM-IOT-B license x1 IPC
Option 2: Main system with Max. 50 measurement points	RM-IOT-B license x1 IPC
Option 3: Main system with Max. 100 measurement points	RM-IOT-B license x1 IPC
Gateway(100 nodes connection)	LoRaWAN gateway x1
Wireless accelerometer package	Triaxial wireless accelerometer x1(node subscription included) , Magnetic sensor base x1
Mobile device application	Smart phones and tablets synchronously review the measurement and diagnostics result





LoRaWAN Gateway

- LoRaWAN gateway supports up to 100-500 nodes
- RJ45 interface for the backhaul connection
- Din rail & wall mount supportive



Wireless sensor

- Powered by 3.6V AA lithium battery (easy to purchase)
- Customized transmit interval(Min. 10-sec to Max. 24-hour)
- Built-in 3 axes accelerometer and thermometer (include 8 characteristic vibration values)
- Wide temp. operation -20 ~ 85 °C
- I66 dust-tight and high pressured water jet proof