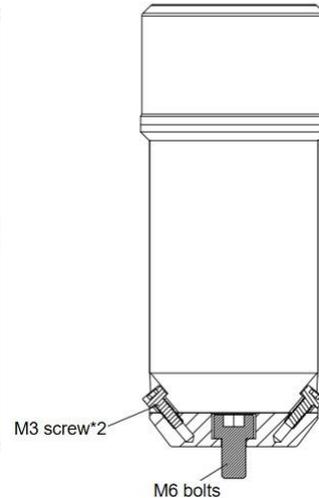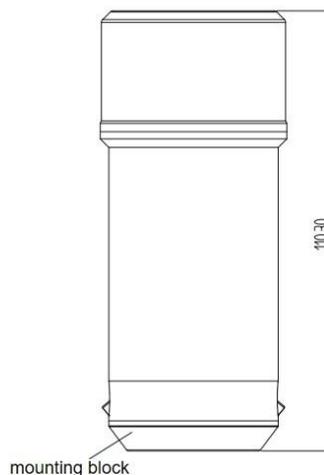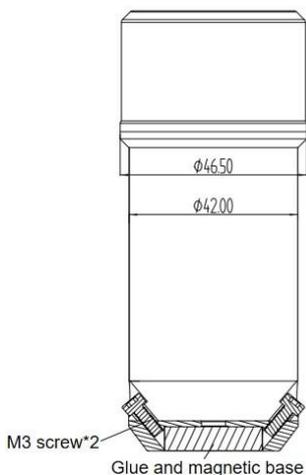# RW506 (M) Wireless Vibration and Temperature Sensor

Product Overview

- Exclusive motor condition data collection and analysis capability, intelligently identifies speed, no-load, load, and start-stop conditions.
- Ultra-low power consumption design, 19Ah large battery.
- Comprehensively upgraded intelligent diagnostic algorithms .
- Supports wireless and completely wireless deployment in multiple scenarios.

Product Picture and Dimension
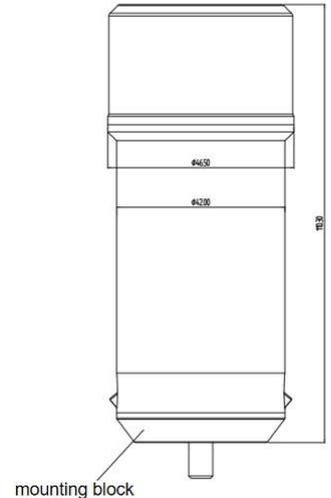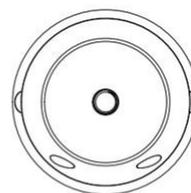
Dimension of sensor for magnet+glue installation

Dimension of sensor for bolt installation

RW506 （M）
Wireless Vibration and Temperature Sensor

Main Parameters

Parameters	Specification	Remark
Physical		
Dimension	46.5mm×110.3mm	Diameter × Height
Weight	About 330g	
Casting Material	Main body: PA66 (nylon)+30% glass fiber Pedestal: 316L Stainless Steel	
Installation Method	Magnet + glue installation, bolt installation	
Ambient Temperature	-40℃ to +70℃	
Protection Grade	IP68	
Basic		
Range	Piezoelectric: ±50g peak	
Frequency Response（±3dB）	Piezoelectric (Z-axis): 2Hz to 20kHz	
Analysis Frequency	Piezoelectric: 1kHz,2kHz,5kHz,10kHz,20kHz	
Measuring Definition	Sampling length: Piezoelectric direction: 1K,2K,4K,8K,16K,32K,64K,128K,256K	
Spectral Line	400,800,1600,3200,6400,12800,25600,51200,102400	
Maximum Acquisition Length	2M	
Edge Computing	Yes	
Indicator Alarm	Yes	
Temperature Measuring Range	-40℃ to +125℃	
Temperature Measuring Accuracy	±2 ℃	
RPM Recognition	Model: RW506M	Speed (Optional)

RW506 （M） Wireless Vibration and Temperature Sensor

Main Parameters

Parameters	Specification	Remark
Power		
Power Supply	2.5 to 3.9VDC battery powered	
Battery	19Ah Lithium-thionyl chloride battery	
Communication		
Communication with Data Collector	ZigBee	IEEE802.15.4
		Communication distance: line of sight 300m
Communication with Configuration Tool	Bluetooth	Bluetooth version: BLE 5.0
		Communication distance: No interference, line of sight 10m
Others		
Certification	CE, FCC, KC,UKCA,NCC,ATEX, IECEx	
Identification	Ex ia IIC T4 Ga	Can be uses for Zone 0, Zone 1, and Zone 2