AISSENS 100AW

Advancing Condition Monitoring with Wi-Fi Connectivity and Full-Scale Data Precision
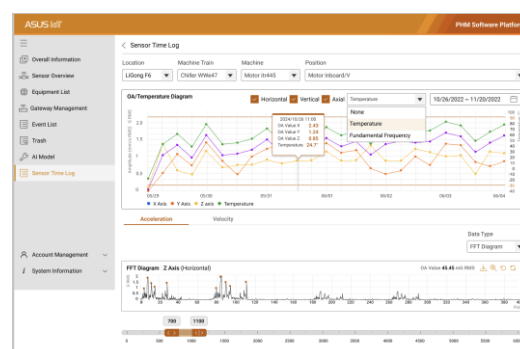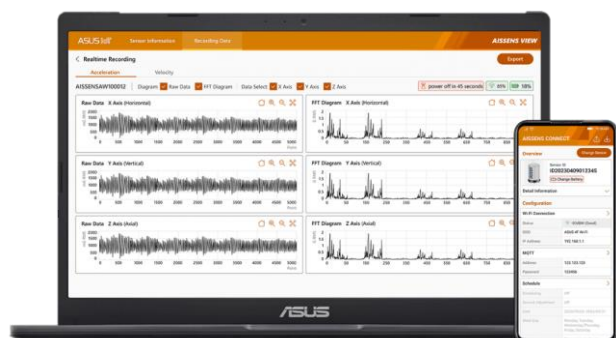
Features

- 6KHz sensitivity for precise early anomaly detection
- Dual Wi-Fi/BLE channels ensure effortless setup and deployment
- Comprehensive PC and mobile app support for user-friendly operation
- MQTT open protocol enables rapid custom development
- Certified IP68 for maximum protection with robust impact resilience

Specifications

3-Axis Accelerometer Sensor	Axis	X-Y-Z
	Frequency Range	10Hz~6000Hz
	Amplitude Range	$\pm$2g $\pm$4g $\pm$8g(Default) $\pm$16g
	Recording Types	RAW Data, OA, FFT,
	Output Data Rate	26667Hz
Temperature Sensor	Range	-20°C ~ 80°C
Wireless Interfaces	Topology	Wi-Fi 2.4GHz, 802.11b/g/n + BT4.2 (+BLE)
	Transmit Power	Up to 20dBm@11b ; 14dBm@11g/n
Configuration	Interface	Bluetooth Low Energy
Indicator	LED	Power, Tx, Rx
Water & Dust-Proof	IP Class	68
Power	Power Input	3.6V 5400mAh
	Battery Life	2 Years (Sampling raw data for 5 seconds every three hours)
Mechanical	Mounting	Magnetic and Mounting pad
	Dimensions	Height：73mm(Body) / 80.75mm (w/magnetic mount), Max diameter：φ47.3mm
	Weight	prox. 250g
Environment	Operating Temp.	-20°C ~ 80°C (Battery powered)
	Storage Temp.	-20°C ~ 85°C (Without battery)
	Relative Humidity	10 to 95% (non condensing)
	EMC	NCC(TW), SRRC(CN), CE(EU), VCCI(JP), FCC(US)
	Neutral Salt Spray test	Passed, 72hrs

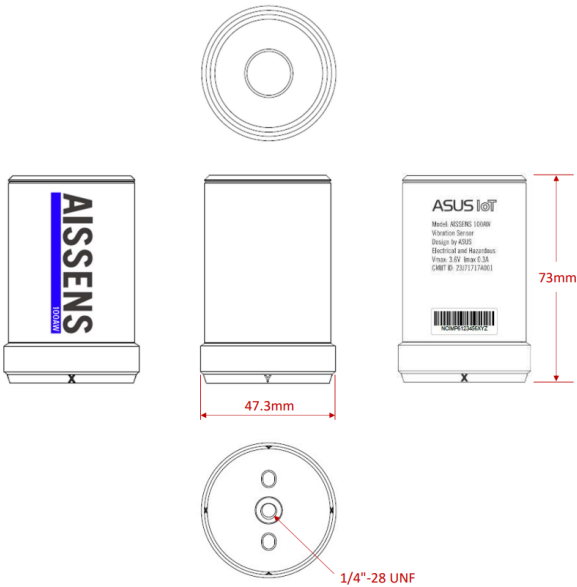## Companion Software

AISSENS View (Windows)
AISSENS Connect (iOS/Android)

- Proximal Bluetooth Configuration (PC/Mobile)
- Scheduled Data Acquisition (PC)
- High-Precision Time and Frequency Domain Display (PC)
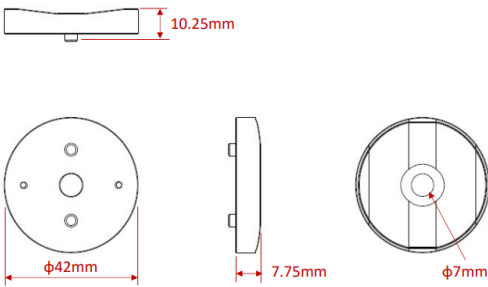- OTA Firmware Updates and Continuous Feature Iteration (PC)

AISPHM-AI Diagnosis & Maintenance Platform

- Manage **100+ sensors** simultaneously
- Trend Analysis
- Deep Learning-Based Defect Detection Modeling
- Custom Rule-Based Detection
- On-premise Ubuntu deployment

Sensor Body

Model: AISSENS 100AW
Vibration Sensor
Design by ASUS
Electrical and Hazardous
Vmax: 3.6V Imax 0.3A
CMIIT ID: 23//7171714001

73mm

47.3mm

1/4"-28 UNF

Magnetic Base

10.25mm

φ42mm

7.75mm

φ7mm

Mounting Pad

φ30mm

9.8mm

27mm

27mm

1/4"-28 UNF