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ASUS IoT UPMOST Agency

AISSENS 100AW Wireless Vibration

AISSENS 100AW Wireless Vibration / Temperature Sensor



6KHz

Sensitivity



Certification

2 Years

Battery Life

7000↑

Recordings



Wireless



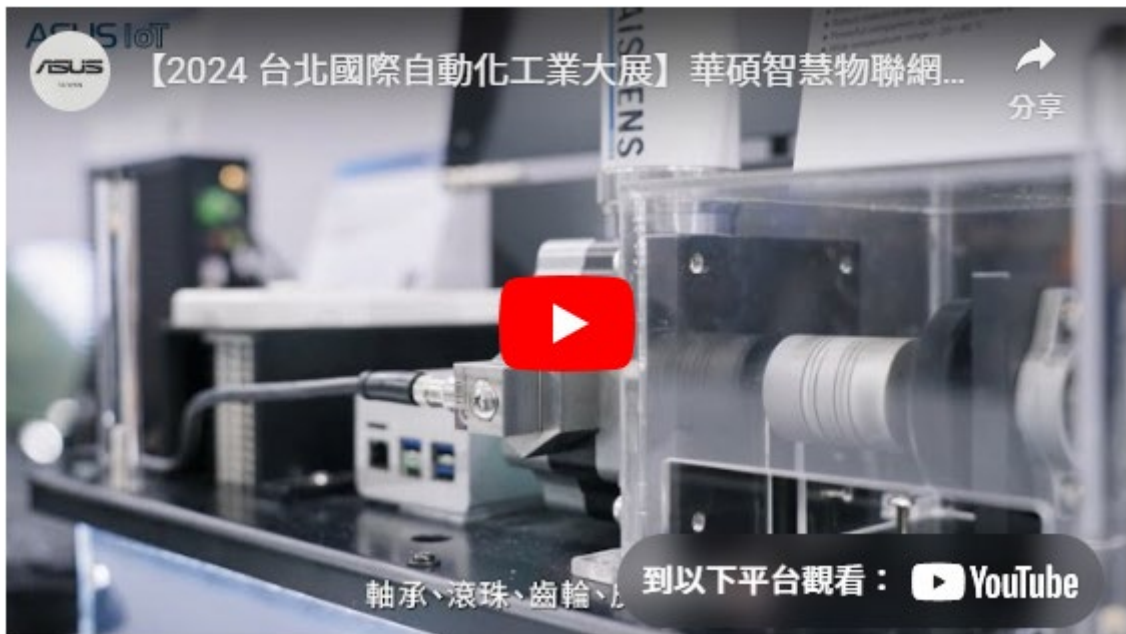
Protocol

**Windows
Android**

Software

The AISSENS 100AW is a wireless sensor with "high sensitivity, high recording frequency, impact resistance, and long battery life." It features a 6kHz high-sensitivity sensor and an IP68 waterproof and dustproof design, allowing it to detect various rotating equipment of all sizes in harsh environments. This enables early detection of equipment anomalies. The sensor is equipped with a built-in 5400mAh battery, providing at least 2 years of operation and capable of uploading over 7,000 RAW data entries. Additionally, it supports remote monitoring through Wi-Fi and Bluetooth wireless transmission, improving efficiency and effectively reducing downtime risks.

The AISSENS 100AW is not only a standalone remote monitoring wireless sensor but also a customizable monitoring solution tailored to customer needs. It supports the MQTT communication protocol, allowing integration with ASUS AISPHM. Additionally, it seamlessly interfaces with Modbus and SCADA systems, meeting diverse requirements for diagnosing equipment health and monitoring.

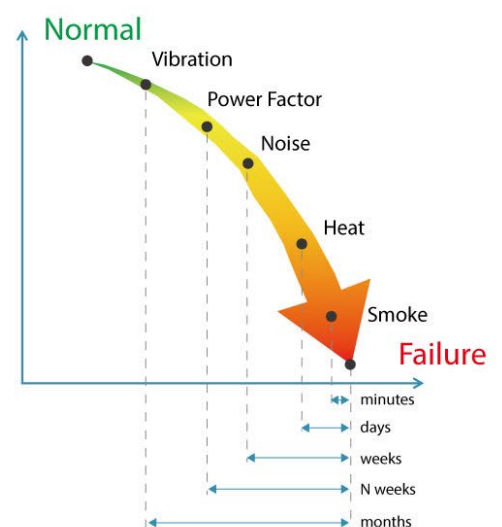


Smart Fault Prediction to Monitor Equipment Health Status

Designed specifically for rotating equipment, it can detect vibration and temperature, record waveform data, and perform data analysis. Additionally, the system allows remote monitoring of equipment health status through a computer or mobile phone, effectively predicting wear or potential failures, and enabling real-time status monitoring.

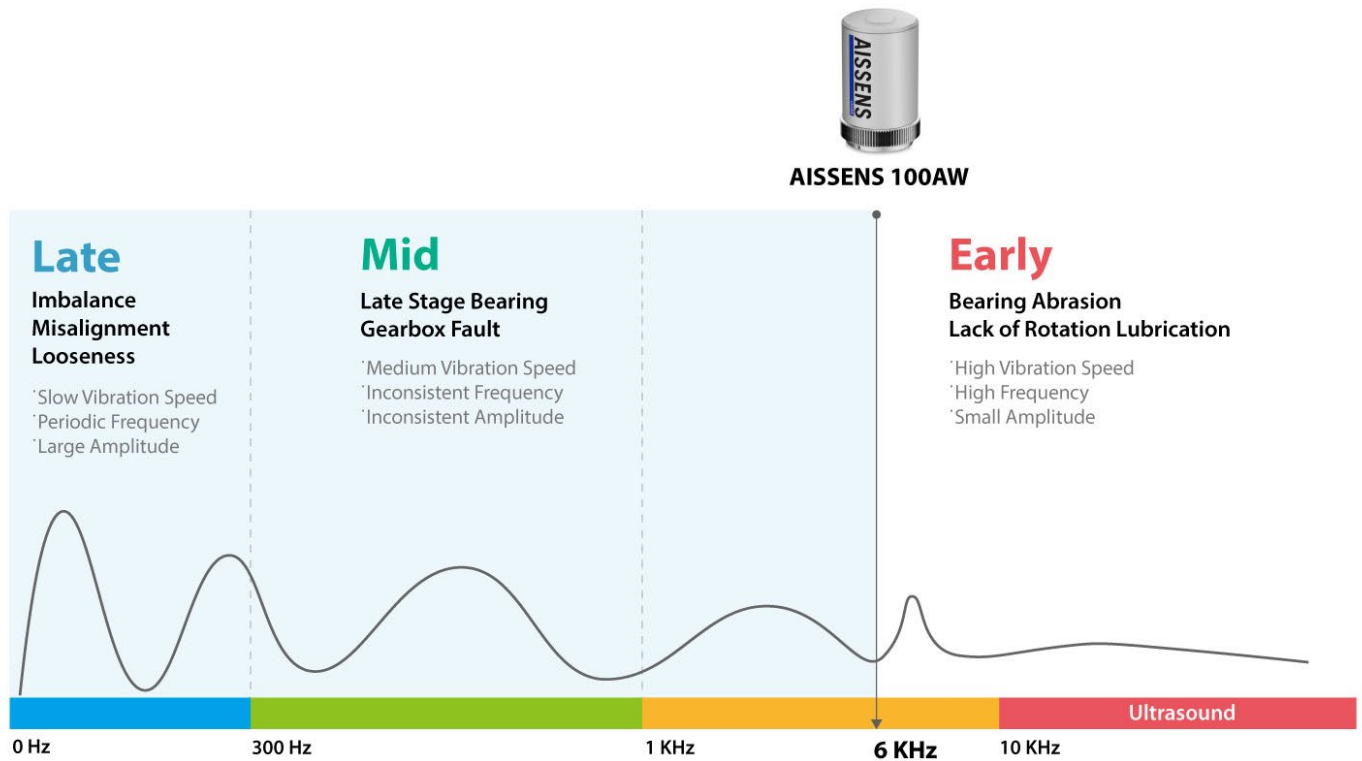


Fault Prediction Timeline



6KHz High Sensitivity for Early Detection of Anomalies

With a 6kHz high sensitivity detection range, it can effectively predict early equipment failures, enabling proactive maintenance. This helps prevent issues such as imbalance, misalignment, or loosening of equipment shafts and gears from occurring later on.



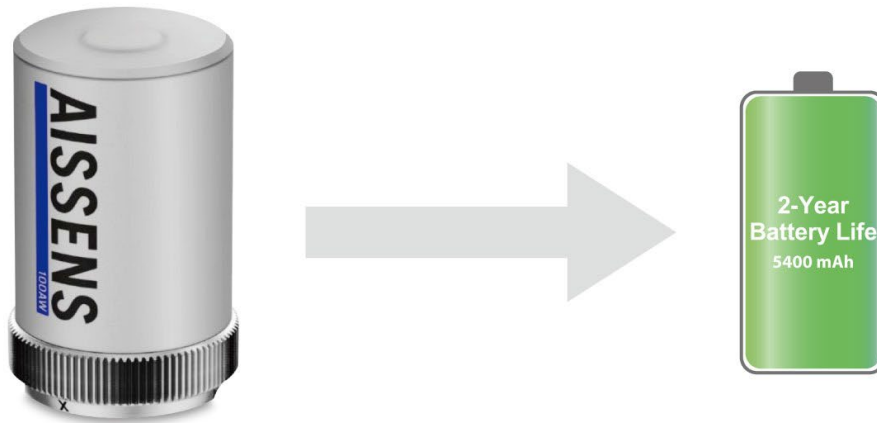
IP68 Waterproof and Dustproof, Suitable for Harsh Environments

Whether in high dust, humid, or water-prone environments, the sensor operates stably, ensuring efficient performance even in harsh conditions. It serves as a continuous, reliable pillar of protection for your detection needs.



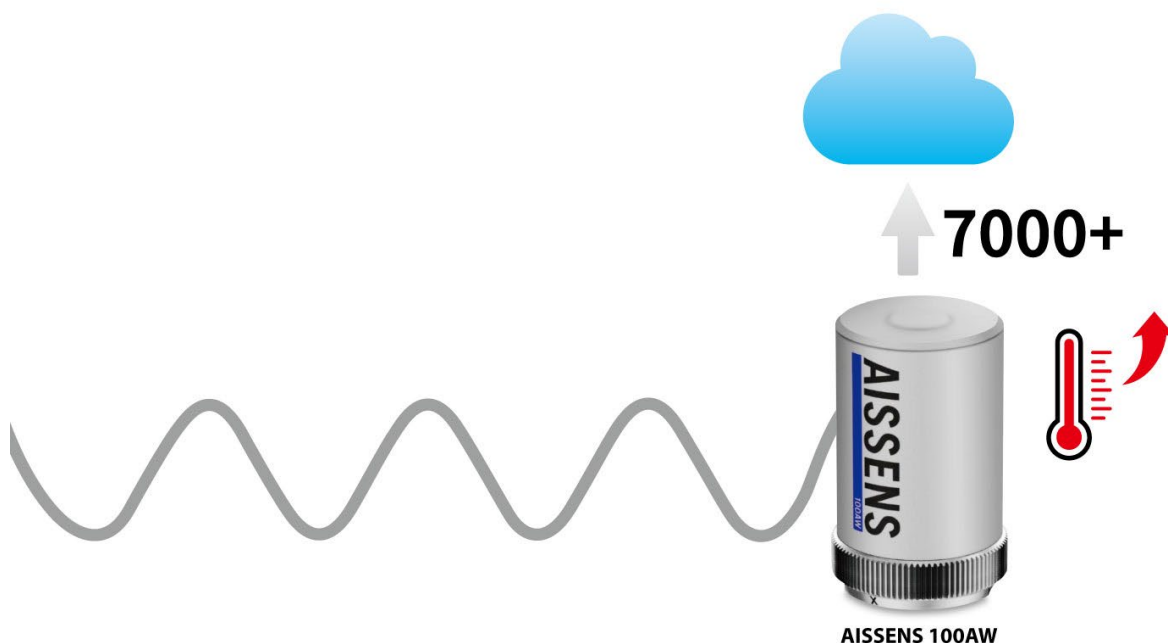
2-Year Battery Life for Continuous Long-Term Monitoring

Equipped with a built-in 5400mAh large-capacity battery, the sensor eliminates the need for frequent battery replacements. This allows for continuous, precise vibration and temperature monitoring without power interruption, ensuring stable operation of the equipment.



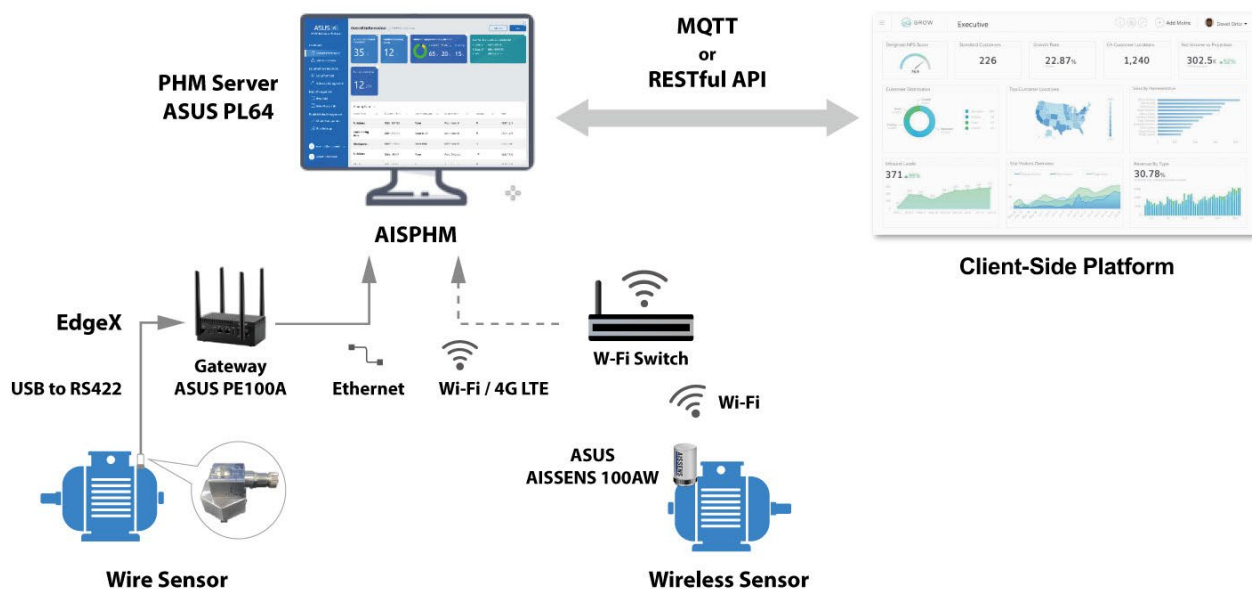
7,000 Uploads to Report Equipment Data

Whether it's vibration or temperature, you can have full control. It helps continuously monitor equipment performance, predict potential issues, and make maintenance decisions more precise and effective.



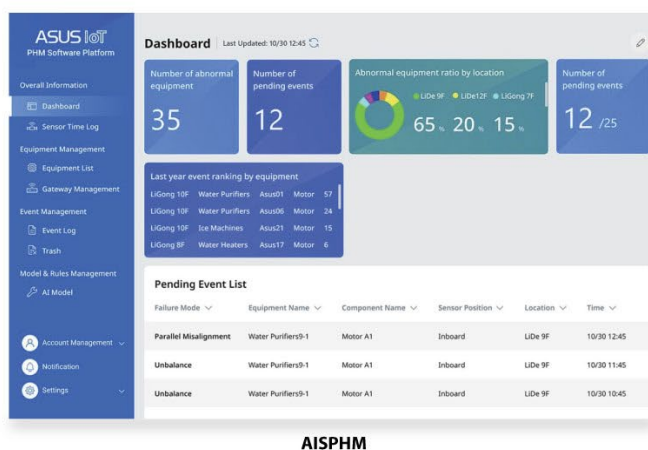
MQTT Protocol for Customized Integration

Through the integration of ASUS IoT hardware, software, and algorithms, the system supports both wired and wireless connectivity for sensor integration. It can further connect with customer platforms via MQTT or RESTful API for seamless integration.



Integrated with the AISPHM Smart Maintenance Solution

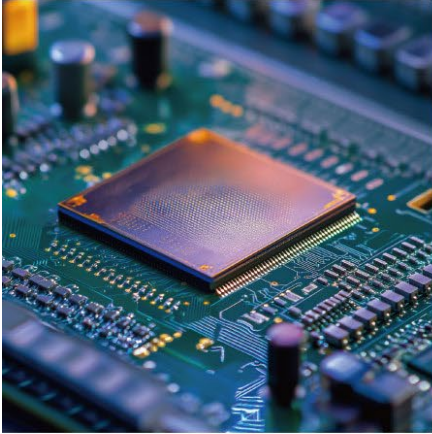
The AISSENS 100AW can not only be used independently but also integrates with AISPHM (Predictive Health Management Platform) to create an intelligent equipment monitoring and predictive maintenance solution. Through real-time data collection and AI-driven deep analysis, it can accurately predict the health status of equipment, detect potential issues early, and prevent failures from occurring.



AISSENS 100AW

Diverse Application Scenarios

Applicable to industries such as semiconductor, manufacturing, heavy industry, maritime, railway transportation, energy, and more. The entire product line is designed to meet the specific needs of various applications.



Semiconductor Industry



Manufacturing Industry



Heavy Industry



Maritime Industry



Railway Transportation Industry



Energy Industry

Parameter Information

- 6kHz High Sensitivity for Precise Early Anomaly Detection.
- Dual Wi-Fi/BLE Channels to Ensure Easy Setup and Deployment.
- Comprehensive Support for PC and Mobile Applications, Providing a User-Friendly Operating Experience.
- Supports MQTT Open Protocol, Accelerating Customized Development.
- Certified with IP68, offering the highest protection level and strong impact resistance.



AISSENS 100AW

Specifications

Three-axis Accelerometer	Three-axis	X-Y-Z
	Frequency Range	DC~6000Hz
	Amplitude Range	±8g
	Recording Mode	RAW Data, OA, FFT
	Data Output Rate	26667Hz
Temperature Sensor	Range	-20°C ~ 80°C
Wireless	Architecture	Wi-Fi 2.4GHz, 802.11b/g/n + BT4.2 (+BLE)
	Transmission Power	Up to 20 dBm @ 11b; 14 dBm @ 11g/n
Configuration	Interface	BT

Instruction	LED	Power, Tx, Rx
Waterproof and Dustproof	Protection Rating	IP68
Power Supply	Power Input	3.6V 5400mAh
	Battery Life	2 years (sampling raw data for 5 seconds every 3 hours)
Mechanism	Installation	Stud Mount, Mounting Pad with Adhesive, Magnetic Base
	Dimensions	Height: 73 mm (body) / 80.75 mm (with magnetic mount) Maximum Diameter: $\varnothing 47.3$ mm
	Weight	Approximately 250 g
Environment	Operating Temperature	-20°C to 80°C (battery-powered)
	Storage Temperature	-20°C to 85°C (without battery)
	Relative Humidity	10 to 95% (non condensing)
	EMC	NCC(TW), SRRC(CN)

size

