

The GS-WVM03 Wireless Vibrating Meter is an advanced monitoring solution designed for high-precision vibration and temperature measurement across demanding industrial and structural applications. Combining intelligent data processing, wireless communication, and robust IP68 protection, the system delivers reliable long-term monitoring of acceleration, velocity, displacement, frequency, and waveform data in real time. With multiple communication options including LoRa, WiFi, and 4G, along with ultra-low power consumption and rapid system integration capabilities, the GS-WVM03 is ideal for remote monitoring environments where accuracy, durability, and dependable data transmission are critical.



FEATURES

Integrated Algorithms	Calculates acceleration, velocity, displacement, and waveform values automatically.
Multiple Frequency Response Specifications	High-precision version supports frequency response down to 0.1 Hz, while the high-bandwidth version supports up to 6 kHz.
Integrated Temperature Measurement	Combines vibration and temperature monitoring with measurement accuracy up to $\pm 0.5^{\circ}\text{C}$.
Large Storage Capacity	Stores waveform data with up to 100,000 points per axis.
Multiple Communication Interfaces	Supports LoRa, WiFi, and 4G wireless communication options.
Ultra-Low Power Consumption	LoRa version provides up to 5 years of operational life.
Extended Communication Range	LoRa communication supports distances up to 3 km.
High-Reliability Design	Aluminium alloy and industrial-grade plastic enclosure with IP68 protection for long-term operation.
Rapid System Integration	Supports LoRa Modbus and MQTT protocols for seamless integration.
Plug-and-Play Design	Ready for immediate deployment and operation out of the box.

SPECIFICATIONS

Model	GS-WVM03
Data Output Types	Peak acceleration, RMS acceleration, Peak velocity, RMS velocity, Peak displacement, Peak-to-Peak displacement, Peak frequency, Instantaneous temperature
Waveform Values	Acceleration, displacement, and velocity time-domain and frequency-domain waveforms
Acceleration Sampling Rate (260 Hz Version)	Up to 833 Hz
Acceleration Sampling Rate (6 kHz Version)	Up to 26,667 Hz
Frequency Response (260 Hz Version)	0.1 Hz to 260 Hz
Frequency Response (6 kHz Version)	33 Hz to 6 kHz
Temperature Sensor Range	-50°C to 150°C
Temperature Accuracy	-20°C to 85°C: Typical $\pm 0.5^\circ\text{C}$
High Temperature Accuracy	50°C to 150°C: Typical $\pm 0.75^\circ\text{C}$
Temperature Response Time	≤ 100 s
Protection Level	IP68
Communication Options	LoRa, WiFi, 4G
Storage Capacity	Up to 100,000 waveform points per axis

APPLICATIONS

The GS-WVM03 Wireless Vibrating Meter is ideal for vibration and condition monitoring in structures, machinery, bridges, tunnels, mining, and industrial applications requiring reliable real-time data collection.



For more information about the GS-WVM03 Wireless Vibrating Meter or to discuss your project monitoring requirements, contact the team at CESCO Equipment. Our specialists can assist with product selection, technical advice, and tailored monitoring solutions for your application.