

# Eave ToolWarden™

Smart Vibration Monitor



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## Smart Vibration Monitor

The ToolWarden™ is an advanced vibration monitoring device designed to measure and manage exposure to harmful vibrations across various tools and equipment. Utilising high-precision accelerometer technology, ToolWarden enables workers to stay within safe vibration exposure limits, reducing the risk of Hand-Arm Vibration Syndrome (HAVS) and related disorders.

Compatible with Eave Peak™ and Eave HealthWatch™.

## Technology and Benefits

Technology	Benefits
Triaxial Measurement	Captures acceleration on X, Y, and Z axes, providing comprehensive vibration exposure data for accurate risk assessment.
Wide Frequency and Measurement Range	Operates within a 0 - 1600 Hz range and measures up to ±200g, ensuring precise tracking of high-intensity vibration sources.
Bluetooth and 4G Connectivity	Enables real-time data transmission for immediate insights and response.
Compatibility and Connectivity	Integrates with Samsung Knox™ for secure enterprise management and syncs with Eave HealthWatch™ for live vibration mapping on smart devices.

## Technical Specifications

Accelerometer Specifications	
Measurement Range	±200g
Axes	Triaxial (X, Y, Z)
Frequency range	0 to 1600 Hz (user-selectable with options up to 3200 Hz)
Resolution	100 mg/LSB, effective resolution approximately 0.35g with noise considerations

## Applications

**Construction and Industrial Worksites:** Tracks and manages worker exposure to high-vibration equipment, supporting compliance with vibration exposure regulations.

**Occupational Health and Safety Compliance:** Enables real-time monitoring of tool and machinery vibrations, aiding in workplace safety assessments and preventive measures.

**Tool-specific Monitoring:** Compatible with various tool mounts for precision measurements across multiple equipment types, adaptable for both portable and fixed vibration monitoring.

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### Variants and Accessories

Connectivity
Bluetooth (BLE)

Accessories
Specialised mounts for secure attachment to handheld tools and machinery