

# Triax Vibration Meter

Accurate Hand-Arm and Whole Body Vibration monitoring

## What is the Triax Vibration Meter?

The Triax Vibration Meter is an accurate Hand-Arm and Whole Body Vibration Meter which takes monitoring and measuring vibration to a new level.

## How the Triax Vibration Meter will benefit you?

The Triax Hand-Arm and Whole Body Vibration Meter is a robust and reliable solution for monitoring the impact of vibration from power tools and machinery on your workforce.

- Enhance workplace safety by accurately measuring vibration exposure. The Triax Vibration Meter aids in identifying and mitigating risks associated with hand-arm and whole-body vibrations, contributing to a safer work environment.
- The system's compliance with relevant standards assists organisations in meeting legal obligations, reducing the risk of non-compliance penalties.
- The Triax Vibration Meter has a user-friendly design and expandable features that allow for quick deployment and scalability, saving time and resources in conducting your vibration assessments.
- The provision of clear, comprehensive data enables employers to make evidence-based decisions regarding tool usage, employee rotation, and implementation of control measures.

## Key Features

- **Simple Operation:** Designed for ease of use, the Triax allows straightforward measurement of both hand-arm and whole-body vibration.
- **Versatile Sensor:** The system supports a variety of sensors with auto-detection capabilities.
- **Regulatory Compliance:** Fully compliant with BS8041 and the Control of Vibration at Work Regulations 2005.
- **Comprehensive Data Presentation:** The device provides clear results in  $\text{m/s}^2$ , HSE exposure points, and indicates maximum exposure limits, facilitating informed decision-making



# Technical Specification

## Instrument Standards:

**ISO 8041: 2017** Human Response to Vibration For compliance with:

**ISO 5349: 2001** Measurement and evaluation of human exposure to hand-transmitted vibration

**ISO 2631:2018** Mechanical vibration and shock -- Evaluation of human exposure to whole-body vibration

## Level Ranges: HAV 1mv/g

Range Name	m/s <sup>2</sup>	g	ft/s <sup>2</sup>
Low	0.20 - 2000	0.02 - 200	0.656 - 6560
High	1.00 - 10000	0.1 - 1000	3.28 - 32800
dB Span	80	80	80

## Level Ranges: HAV 10mv/g

Range Name	m/s <sup>2</sup>	g	ft/s <sup>2</sup>
Low	0.10 - 1000	0.01 - 100	0.328 - 3280
High	0.50 - 5000	0.05 - 500	1.64 - 16400
dB Span	80	80	80

## Level Ranges: HAV 100mv/g

Range Name	m/s <sup>2</sup>	g	ft/s <sup>2</sup>
Low	0.01 - 100	0.001 - 10	0.0328 - 328
High	0.050 - 500	0.005 - 50	0.164 - 1640
dB Span	80	80	80

## Level Ranges: HAV 1000mv/g

Range Name	m/s <sup>2</sup>	g	ft/s <sup>2</sup>
Single Range	0.01 - 35	0.001 - 3.5	0.0328 - 115
dB Span	70.88	70.88	70.89

**Measurement Channels:** Three simultaneous X, Y, Z

## Parameters:

**Acceleration:** Arms, Aeq, Amax, Peak, Vector Sum, Dominant Axis, HSE Exposure Points, EAV and ELV

**Linear Operating range:** 80 dB

## Frequency Weighting:

Wh - Hand Arm Filter

Wd & Wk - Whole Body Vibration

**Memory:** Flash memory storing over 2000 recordings

## Transducers:

CVB202 - HAVS Triaxial Accelerometer (Triax)

CVB203 - MEMS Whole-Body Seatpad for Triax

**Noise Floor:** <0.002 m/s<sup>2</sup> - Low Range, <0.020 m/s<sup>2</sup> - High Range

**Display:** Full Colour Graphic OLED Display (160 x 128)

**Batteries:** 4 x AA Cells, Typically 12 hours continuous use

## Connections:

Input: 7 Pin Lemo Socket Download: USB Micro B (Cable Supplied)

**Languages:** English UK, English US, Chinese, French, German, Italian, Portuguese Brazilian, Russian, Spanish

## Environmental:

**Temperature Operating Range:** -10 to + 50°C

**Humidity:** Up to 90% RH Non-Condensing

**Electromagnetic Compatibility:** Designed in accordance with the following Electromagnetic Compatibility Directives: -

- SI 2005/281
- 2004/108/EC

**Case:** High Impact ABS plastic with tactile membrane keypad