

Revo™

Hand-Arm & Whole-Body Vibration Meter

For protecting your employees from the dangers of excessive vibration

What is the Revo?

The Revo is a handheld vibration meter used for the measurement of both hand-arm and whole-body vibration. It provides a simple and convenient way to measure, analyse and assess vibration data in accordance with international standards, including ISO 5349 and European Directive 2002/44/EC. Capable of measuring four channels simultaneously, the Revo meets the requirements of ISO 8041:2005.

Applications

- Hand-arm vibration measurement for any industry or sector
- Whole-body vibration measurement for any industry or sector
- Vibration measurement data analysis

Avoid HAVS with hand-arm vibration measurement

The Revo Vibration Meter collects important vibration data to help you tackle Hand-Arm Vibration Syndrome (HAVs or Vibration White Finger). This is caused by over-exposure to vibration from power tools, machinery and vehicles. The HSE estimates there could be up to 5 million sufferers in the UK alone.

Safeguard against whole-body vibration

Whole Body Vibration (WBV) is usually transmitted to drivers of tractors, fork lift trucks and other plant machinery. Vibrations from shocks and bumps travel through the seat into the driver, causing back pain. The Revo comes with accessories that allow you to assess the impact of whole body vibration easily.

Key features

- Measures vibration in accordance with the Control of Vibration at Work Regulations 2005
- Compliant with ISO 5349, ISO 2631 and the EU Directive 2002/44/EC
- 2-in-1 functionality to measure both hand-arm and whole-body vibration levels
- Four independent measuring channels with IEPE inputs and TEDS support
- Easy to use - no complicated setup procedure
- Stores up to 10,000 measurements
- Integrated frequency analysis (FFT)
- Includes a free data reporting package for the easy analysis of data and reporting
- USB interface for quick data downloads



Get the complete vibration measurement kit

The Revo vibration meter is typically supplied as part of a complete measurement kit, which includes the accessories required to carry out hand-arm vibration measurements, including handle mounts for the triaxial accelerometer to attach it to handheld tools and equipment.

A range of accessories is also available, including the the triaxial whole-body vibration accelerometer seat, allowing the Revo vibration meter to be used in a wide range of additional settings.



Technical specifications

Standards	ISO 8041:2005 ISO 5349-1:2001 ISO 5349-2:2001	Linearity range	> 75dB for $\pm 6\%$ error
Measurements		Noise floor	< 0,003 m/s ²
Human vibration	Interval RMS, vector sum, max. running RMS (MTVV), (Acceleration) vibration dose (VDV)	Sensor input	Low-power IEPE, sensitivity 0.8 - 120 mV/ms ²
Acceleration, Velocity, & Displacement	Running RMS, maximum RMS, vector sum, peak value, maximum peak value	Memory	Up to 10,000 measurements Up to 1,000 FFTs Each measurement stored with date, time and comments
Daily exposure A(8)	A(8) calculation for different activities and test persons via software	Display	Colour OLED
Frequency analysis (FFT)	125 lines for X/Y/Z, peak spectrum of acceleration 3 - 240 / 6 - 480 / 12 - 960 / 24 - 1920Hz	USB interface	USB 2.0 via ZL:311 cable
Weighting filters	Wb, Wc, Wd, Wh, Wj, Wk, Wm Unweighted: 6.3Hz - 1259Hz (H/A) / 0.4Hz - 100Hz (G/K)	Power	3 x AAA alkaline LR03 Typically 10-14 hours' operation
Frequency range	Acceleration: 0.1 - 2000Hz / 1 - 1000Hz Velocity: 1 - 100Hz / 2 - 1000Hz / 10 - 1000Hz Displacement: 5 - 250Hz	Environmental	Temperature: -20°C to 60 °C Humidity: Up to 95% RH non-condensing
Channels	4 low-power IEPE inputs TEDS support (IEEE 1451.4, Template 25)	Dimensions (without connectors)	125 mm x 65 mm x 27 mm
Measurement range	Acceleration: 800 m/s ² Velocity: 100 - 10000 mm/s Displacement: 250 - 15000 μ m	Weight	140 g