pulsar
Instruments Plc

Introducing

Pulsar vB² Human Vibration Meter

Hand-Arm Whole-Body

The latest innovation in Hand-Arm & Whole-Body Vibration

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Pulsar vB² Human Vibration Meter

The Pulsar vB² is the latest hand-arm and whole-body vibration measurement innovation designed to make your vibration risk assessments as effortless as possible.

For the Health and Safety Manager who demands accuracy and efficiency, the all-new Pulsar vB² Human Vibration Meter is the instrument that gives you rapid, reliable results.

The vB² has a very minimalist, user-friendly design that will allow any member of your team to use it with very little training. The modular design allows you to easily switch between measuring either hand-arm or whole-body vibration by simply using our plug-and-play sensors to take your readings.

Ensuring you pick the correct instrument for the job can be a worry for a lot of Health and Safety Managers, but the vB² gives you the option to add extra functionality as and when you need it. If you only need to measure hand-arm vibration now, rest assured that you can add the whole-body vibration sensor in the future, or vice-versa, instead of finding another meter.

Features

The Pulsar vB² is packed full of features to help make your vibration assessments easier;

- Seamlessly switch between measuring for hand-arm or whole-body vibration
- User-friendly with an intuitive user interface
- License-free software to generate all of your reports
- Compliant to BS8041:2017 and the Control of Vibration at Work Regulations 2005
- Effortlessly calculate m/s², vibration exposure points and maximum exposure time all at once.
- Futureproof your purchase with the ability to upgrade functionality at any point.
- Large memory to store all of your measurements

Instrument Standards

ISO 8041:2017 Human Response to Vibration

ISO 5439:2001 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

Pulsar vB² VIBRATION METER

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Technical Specifications

Instrument Standards

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Level Ranges: HAV 1mv/g

Range Name	m/s²	g	ft/s²
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/s²	g	ft/s²
Low	0.10-1000	0.01-100	0.328-3280
High	0.50-5000	0.05-500	3.28-32800
dB Span	80	80	80

Level Ranges: HAV 100mv/g

Range Name	m/s²	g	ft/s²
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 100mv/g

Range Name	m/s²	g	ft/s²
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

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:
Standard HAV Sensor (VB202)
Premium HAV Sensor (VB208)

Whole-body MEMS Seatpad (VB203) & Cable
Premium Seatpad (VB209) & Cable

Noise Floor:
<0.002 m/s² - Low Range, <0.020 m/s² - 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, Portugeze Brazilian, Russian, Spanish

Environmental:
Temperature Operating Range: -10 + 50°C

Electromagnetic Compatability:
Designed in accordance with the following Electromagnetic Compatibility Directives:

*** SI 2005/281**
*** 2004/108/EC**

Case:
High Impact ABS plastic with tactile membrane keypad

Ordering Information

VB201 Pulsar vB² Human Vibration Meter (instrument)

PVB201 Pulsar vB² Hand-Arm Vibration System
PVB202 Pulsar vB² Whole-Body Vibration System
PVB203 Pulsar vB² Human Vibration System

Accessories

VB202 HAVS Tri-axial Accelerometer
VB203 MEMS Whole-Body Seatpad
VB204 Tri-axial Accelerometer Cable (3m)
VB205 Accelerometer Mounting Block with Slot
VB206 System Case
VB207 Protective Rubber Boot