

HealthVib WBV300

Whole body vibration measurement instrument



*Works in accordance with ISO2631 and
EU-directive 2002/44/EG*

Application

- Measurement of whole body vibration exposure on different vehicles and machines.
- Pedagogical Vibindicator: to use the simultaneous vibration monitoring to educate operators. (Intuitive feedback to user with green, yellow and red diods on Vibindicator WBV).
- Perform risk assessment: to minimize vibration exposure risks at work.



Smarter Design

HealthVib WBV is a wireless system using MEMS sensor that are solid & robust. Measurements can be started and paused automatically excluding unwanted data. Data can be also sent wireless on an external display, Vibindicator WBV.

Vibindicator WBV records measurements and present vibration exposure levels with colors. Simple configuration and user-friendly interface helps to reduce the preparation time. This makes measurement efficient.

Key Features

- Measure vibrations in three/six directions (x,y,z) presented as 1 second r.m.s. values and presented on display and momentary dose, accumulated dose A(8) on Vibindicator WBV.
- Quick set up and portable with no wires.
- Activating body sensor; it will be possible to get just the useful data of operating time.
- Calculation of daily dose value; A(8), VDV and Peak
- Automatically display the dominant direction during the measurement on color display 128 x 128 px, and easy to check every results on display after measurement.
- USB memory with 4GB capacity
- 4-button interface
- Extended analyse and suggested report template in VibNoiseView- software analysis.
- Easy to investigate individual direction and measurement values
- Recalculates results depending on estimated time
- Export data to other formats.



VibNoiseView- Software analysis

HealthVib WBV300 System

Technical Specification



Product	HealthVib WBV300	<i>Optional</i> Vibindicator WBV	<i>Optional</i> FloorVib
Material Measured	Plastic/Rubber A_{rms} , A_{VDV} , Peak, A(8)	Plastic A(8), A_{mom} *	Plastic 1s weighted A_{xyz} r.m.s
Memory type	Integrated micro SD	Integrated flash	N/A
Memory Capacity	>10 hours	16 hours (1s rms values)	N/A
User interface	Color display 128x128 px	3 status indicating LED's 9 vibration level LED's	2 status indicating LED's
Dimensions	ø215mm, 12mm	58 x 58 x 18 mm	101 x 58 x 36 mm
Weight	335 gram	40 gram	120 gram
IP-class	40	40	40
PC Communication	Micro USB	Mini USB	Mini USB
Wireless Range	Up to 5 m	Up to 5 m	Up to 5 m
Battery Time	>10 hours	16 hours	12 hours
Battery voltage	3.7 V	3.7 V	3.7 V
Charging Interface	Micro USB	Mini USB	Mini USB
Accelerometer			
Type	Mems Tri-axiell (x, y, z)	* momentary weighted r.m.s vibration level.	Mems Tri-axial (x, y, z)
Sensitivity	660 mV/g		660 mV/g
Measurement Range	20 m/s ² peak		20 m/s ² peak
Dynamic Range	72 dB		72 dB
Resolution	0.01 m/s ²		0.01 m/s ²
Frequency Bandwidth	0 - 1.6 kHz		0 - 160 Hz
Temp Range	- 10 to +60 °C		- 10 to +60 °C

HealthVib WBV300 - System



HealthVib WBV300 (CVK1110)

Measures Whole-body vibration exposure in 3 directions (x,y,z). The package includes WBV300, seat pad, VibNoiseView software analysis and instrument case.



FloorVib (CVK1120)

It can be combined with WBV300 to measure vibration exposure from the floor in 3 directions (x,y,z)

