HealthVib HAV

Hand-arm vibration measurement instrument

Works in accordance with ISO5349 and EU-directive 2002/44/EG

Application

- Measurement of vibration exposure on different hand-held machines
- Mounting on machine: directly mount sensors on machines to measure vibration exposure
- Pedagogical Vibindicator: to use the simoultaneous vibration monitoring to educate operators.
- Perform risk assessment: to minimize vibration exposure risks at work.

Smarter Design

HealthVib HAV is a wireless connected system for one or both hands measurement at the same time. The MEMS sensors are solid & robust. Measurements can be performed by directly mounting the unit on machine or using CVK gloves and send the measurement data wireless to Vibindicator HAV.

Vibindicator HAV records measurements and present vibration exposure levels with colors.

Simple configuration and user-friendly interface helps to reduce the preperation 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 Vibindicator
- Calculation of daily dose value; A(8)
- Extended analyse and suggested report template in VibNoiseView- software analysis.
- Integrated flash memory with 14-28 hours capacity.
- Quick set up and portable with no wires.
- Rugged and robust MEMS sensors
- Optional CVK gloves (adaptor) to measure
-By VibNoiseView software analysis, it is possible to compare both hands at the same time.

VibNoiseView– Software analysis

CVK
Vibration & Noise

Product	Active Unit	Passive Unit	Vibindicator HAV
Material	Aluminium/ Plastic	Aluminium/ Plastic	Plastic
Measured/saved magnitudes	$Ahv_{rms,}$ $A(8)$	$Ahv_{rms,}$ $A(8)$	Ahv_{rms}, $A(8)$, peak, 1s Amom *
Memory type	Integrated flash	N/A	Integrated flash
Memory Capacity	N/A	N/A	14-28 hours (1s rms value)
User interface	2 status indicating LED's	1 status indicating LED	3 status indicating LED's 9 vibration level LED's
Dimensions	58 x 43 x 15 mm	58 x 43 x 15 mm	58 x 58 x 18 mm
Weight	81 gram	81 gram	40 gram
IP-class	44	44	44
PC Communication	Mini USB	N/A	Mini USB
Wireless Range	Up to 5 m	Up to 5 m	Up to 5 m
Battery Time	12 hours	12 hours	17 hours
Battery voltage	3.7 V	3.7 V	3.7 V
Charging Interface	Mini USB	Mini USB	Mini USB
Accessories	Special Gloves	Special Gloves	Velcro patches

Accelerometer

Type	Mems Tri-axial (x, y, z)	Mems Tri-axial (x, y, z)	
Weight (incl. Cable)	6 grams	6 grams	
Sensitivity	57 mV/g	57 mV/g	
Measurement Range	235 m/s^2 peak	235 m/s^2 peak	
Dynamic Range	72 dB	72 dB	
Resolution	0.1 m/s^2	0.1 m/s^2	
Frequency Bandwidth	0 - 1.6 kHz	0 - 1.6 kHz	
Temp Range	- 40 to +85 °C	- 40 to +85 °C	

HealthVib HAV100 – packages

HealthVib HAV100–3Ch (CVK1501)

Measure one hand vibration exposure in 3 directions (x,y,z). The package includes HealthVib Active , Vibindicator HAV, CVK Gloves, VibNoiseView software and carrying case

HealthVib HAV100–6Ch(CVK1505)

Measure both hand-vibration exposure in 6 direction (x,y,z), simoultaneously.
The package includes HealthVib Active, HealthVib Passive, Vibindicator HAV, CVK Gloves, VibNoiseView software and carrying case