

HealthVib®

– human vibration dosimeter

The HealthVib® human vibration dosimeter measures whole body vibrations (WBV) in three directions.

HealthVib® measures and analyses WBV on driver seating as required by ISO 2631-1 and EU directive 2002/44/EG. Measurement using HealthVib® is easy to learn and carry out. The unit doesn't require cables, software or any special configurations.

The vibration data is collected and analysed in three directions simultaneously.

The analysis filters vibrations to exclude unnecessary data. Through the use of the two button controls, results can be displayed in 10-second intervals, an entire work period and the eight-hour daily vibration dose. The vibration dose is displayed on an LCD screen and can also be sent on an external display (Vibindicator™). Through feedback from the Vibindicator™ users can understand the effects of different driving techniques and conditions (e.g. in a working vehicle where an operator can see the results of vibration measurements). From this information users can learn to lower vibration exposure by changing driving techniques and/or conditions.

Daily vibration dose – The time average of the vibration power, during an eight hour period.

Harmful vibration dose – Guidance for harmful levels are found in the directive 2002/44/EG, but the individual's sensitivity has to be considered. In the directive the action limit value are stated (where the vibration dose cause a risk for the health or accident) and an exposure limit (where the vibration dose is obviously harmful or is a cause for accident) and has to be used in risk assessment.

PRODUCT PROGRAM

HealthVib®

An instrument for measuring vibrations on humans in three directions, x, y, and z, in accordance to the EU directive.

Model **STANDARD** - is used to measure whole-body vibrations in accordance with current work environment regulation. Can be used with a rubber plate for sitting or standing.

Model **BODY** - is used to measure whole-body vibrations where the standard model cannot be used. Is strapped directly on the body.

Model **HAV** - is used to measure hand and arm vibrations. Is strapped directly on the hand or the arm.

Vibindicator™

The vibrations dose from the dosimeter is presented to the employee in 10 seconds doses by different coloured light-emitting diode. The indicator stores data for processing in PC.

HealthVib®-inSeat

The vibration measuring system for integration in driver seats and adaption for specific seat models. The enclosed indicator displays the current vibration level, dominating direction and accumulated dose, and notifies the driver with feedback and knowledge about current health risks.

QualityVib™

An instrument for measuring vibrations on materials such as floors, cargos and vehicles. *All products are patented.*

CONSULTATION SERVICES are available – emphasis is on identification of specific vibration control needs and the development of innovative solutions to meet unique needs.

Technical specification 2008 05

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Through the use of HealthVib vibration dosimeters users can identify harmful vibrations.

This knowledge makes vibration risk judgment easier and more precise.



HealthVib®

Technical specification

Sensor type: Piezoelectric 3-axis accelerometer

Measurement unit: m/s^2 (r.m.s.)

Sample rate: 640 three-axis samples per second

Frequency Range: 0.5–80 Hz

Vibration dose presentation:

- 10 second periods
- an entire work period
- an 8-hour vibration dose

Battery time: 16 hours

Charge time: 6 hours, battery charger is included

Size: HealthVib 80 x 58 x 18 mm (L x W x H)

Seatplate \varnothing 250 mm

Weight: HealthVib 43 g. Seat plate 436 g

Seat plate for measuring WBV with HealthVib is included

WBV= Whole body vibrations



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