



Addressing the issue of individual exposure to vibration: Vibrometer Vib008 and software dBMaestro...

Light, robust and compact, **Vib008** is a suitable instrument for the measurement of "hand-arm" and "whole-body" vibrations, according to the requirements of European Directive 2002/44/EC.

Vib008, Occupational health and prevention of repetitive strain injury

Whole-body and hand-arm vibrometer: Vib008

The vibrometer consists of a portable, ergonomic and miniaturised housing, hosting the acquisition unit, signal processing, data storage and data transfer.

- ▶ X, Y and Z vibration levels, daily exposure A(8)
- ▶ Signal and 1/3 octave spectrum recording
- ▶ Presence detector and warning light
- ▶ 20-hour operating life



Wireless remote control: dBA(8)

The Pocket PC, along with dBA(8), its control software, is the interface between the operator and vibrometer **Vib008**.

- ▶ Simultaneous control of up to 5 instruments
- ▶ Management of measurement configurations
- ▶ Collection of measurement files
- ▶ Real-time display of measured data on a colour screen



Processing software: dBMaestro

dBMaestro is used to transfer, process, publish and archive data.

- ▶ Compliant with standards ISO 5349 & ISO 2631
- ▶ Data transfer via USB2.0
- ▶ Workshop approach
- ▶ Automatic reports



Enhance your know-how in

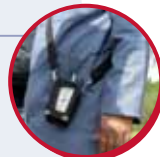
- ▶ hand-arm measurements
- ▶ industrial settings
- ▶ whole-body measurements
- ▶ vibration expertise



Technical specifications for Vib008/dBMaestro



Characteristics	Vib008		
Standards	ISO 8041 (2005), ISO 5349 (2001), ISO 2631 (1997)		
Metrology	From 1 to 4 (depending on configuration and option)		
Channels	0,01		
Display resolution	IEPE : 12V-4mA or 24V-4mA		
Conditioning	5V AC peak		
Voltage (input)	Yes (separate detection for each channel)		
Overload	Wd, Wk, Wh (digital, according to ISO 8041)		
Filtering	Programmable filter: 0.4 - 4000 Hz 1/1 octave: 1Hz - 2kHz / 1/3 octave: 0.8Hz - 2.5kHz (Optional on 1 channel)		
Measured magnitudes	Simple vibrometer: acceleration, peak, peak - peak, peak factor, rms (x, y, z) Hand-arm: acceleration, peak, peak - peak, RMS (x, y, z), ahv, A(8) Whole-body: acceleration, peak, peak - peak, peak factor, rms (x, y, z), av, Aeq, A(8), A(8)v, VDV, MTVV, SEAT Signal recording: manual or on trigger ($f_{s_{max}} = 8192\text{Hz}$ (Optional on 1 channel)) Parallel measurement and time history of all indicators		
Calibration	With a calibrator, by input of sensitivity or by gravity		
Temperature	-10°C / +50°C (0-95% HR)		
Dimension / Weight	105 x 60 x 25 mm / 135 g		
Memory Module	Integrated 1GB flash memory, type Micro SD Storage of measurement files (minimum rate: 1s) Signal storage (programmable sampling)		
General Performances	Typical battery life: 20 hours (stand-alone mode) / 10 hours (remote controlled mode) 3.7 V - 2.3 A battery - Charging time: 6h30 (USB or charger)		
Depending on configuration	Triaxial Hand-Arm accelerometer HAA 001	Triaxial Whole Body seatpad WBA 001	Monoaxial accelerometer for SEAT (option)
Sensitivity	10 mV/g	100 mV/g	10 mV/g
Dynamic range	500 g	18 g	500 g
Bandwidth	From 1 to 12 000 Hz (+/- 1dB)	From 0 to 2 000 Hz (- 3 dB)	From 0.1 to 1 000 Hz
Resonance frequency	> 36 kHz	5.5 kHz	> 28 kHz
Weight	13 g	270 g	18 g
Temperature range	-40°C / +125°C	-20°C / +70°C	-50°C / +125°C
Material / Characteristics	Titanium	Seatpad with presence detector	Stainless steel
Accessories	Adapters for handle, steering wheel and finger	Removable retractable reel cable	Floor mounting using an isolated magnetic base
Control software dBA(8)	Control using a Pocket PC/Tablet PC: configuration management / real-time display / data collection Wireless Bluetooth communication Programmable start modes: immediate / delayed / by periods / on detection of presence Visual display and coding of data on colour screen of remote control Pre-programmed configurations (whole body, hand-arm, free) Storage of signal: manual or automatic on trigger Written and oral comments (synchronised with measurement file) PC-compatible software Languages: English, French		
Processing software dBMaestro	Transfer of measurement files generated by Vib008 through USB2.0 Calculation of A(8) and peak factor according to Directive 2002/44/EC, calculation of dose on coded events Whole body (health, comfort or perception, seated, standing, lying), Hand-arm Time history plots for all indicators Calculation of average values between cursors Automatic reports		
Standard package	Vib008 - Transducer – Desktop charger – dBA(8) dBMaestro – Carrying case / CD / Documentation		
Options	Vibration calibrator / Pocket PC / Tablet PC Floor mounting system / Shock-proof protecting cover		



The presented characteristics are subject to change without notice. Version: June 2008

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