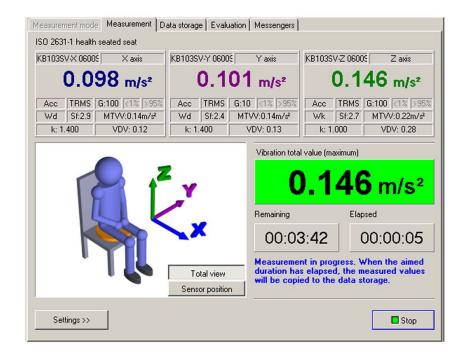
# **Software Module Whole-Body Vibration**

## **VM-BODY**





### Application

- · Software module of the PC based vibration measurement system VibroMetra
- Measurement and evaluation of whole-body vibrations to EN ISO 2631
- Health evaluation of vibrations in vehicles, construction machinery, forklift trucks etc. to ISO 2631-1
- Measurements for the implementation of EU guideline 2002/44/EC
- Measurement of vibrations in buildings to ISO 2631-2
- Comfort evaluation of vehicles
- Vibrations in fixed-guideway transport systems to ISO 2631-4

### Properties

- Measurement of the RMS of weighted acceleration in three orthogonal directions
- Vibration total value (Ahv)
- Vibration dose value (VDV)
- Various weighting filters to ISO 8041-1
- User guidance corresponding to the standard
- Offline processing of stored measurement data
- FFT analysis of vibration events with VM-BODY+
- Calculation of daily vibration exposure A(8)
- Generation of individualized reports
- Available as kit including hardware and sensor



### **Technical Data**

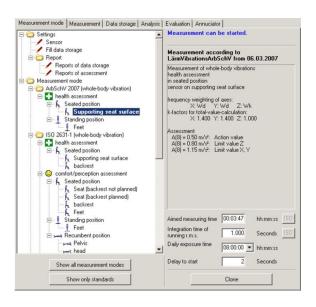
	VM-BODY	VM-BODY+		
Event analysis	no	FFT		
Measurands	Interval RMS; maximum RMS (MTVV)			
	Vibration dose value (VDV); crest	factor		
Frequency weightings	Wb; Wc; Wd; Wj; Wk; Wm			

**Optional accessories** 

M312B USB sensor interface (2 units needed) Triaxial sear pad accelerometer KS963B100-S/01

Notice

A free trial version of VibroMetra including VM-BODY can be downloaded from our website www.MMF.de.



Measurement mode	Π	X(m/s <sup>2</sup> )	Y(m/s <sup>2</sup> )	$Z(m/s^2)$	Total	Assessmen
1. ISO 2631-1 comfort/perception seated seat (no backrest me	1		0.220	0.629	0.696	acceptable
2. ISO 2631-1 health seated seat	1	0.097	0.350	0.019	0.350	good
3. ISO 2631-1 health seated seat	1	0.046	0.220	0.156	0.220	good
4. ISO 2631-1 health seated seat	I	0.387	9.824	0.330	9.824	bad
Overall assessment   1.ISD 2631-1 health seated seat   Measurement performed or Seat Minor / MTWI Int.time DestAngeort Allowed daily exposure 9/16/2008 at 4:03:21 PM 000110/11,000 s 0:350 m/2* / 8 be percental leadth init init and the seated seat		Curr		data file		oMatrix\Data\\ Save
1. ISO 2531-1 health seated seat   Measument performed on Measume / MTV/ Int.me Dose Al8/Duration Assessment no noncessed health nik		Curr C:V	ent folder Jsers\Pub Read o Copy direcently o	data file 1 to used data I	l	
1. ISO 2631-1 health sealed seal   Measument performed on 3/18/2008 at 4:03:21 PM   Measumer / MTVV Int.me 000110 / 1,000 s   Dose Alg/Duration 0.350 m/s² / 8h   Assessment Tomeraced health mit   Allowed daily exposure 16:18:11 / 1d   X of limit K8 8408 / Y30.457 22.2397   Limit value (m/s²) X 1150 / Y: 1150 2: 0.800   Creat Factor X 19.277 Y: 7333 2: 11.728		Curr C:VL Loac	ent folder Jsers\Pub Read o Copy d recently o V Measure	data file to used data I ement 22-0	l	Save.
1. ISO 2631-1 health seated seat   Measurement performed on Measuremerk performed on Door Alg/Druteino 9/18/2008 at 4.09.21 PM 0.00110 / 1.000 a Door Alg/Druteino   Door Alg/Druteino 0.30 m/s² / 8h no increased health risk Alowed daily exposure 16.1811 / 14 % 0 limit 22.297 % 0.805 / 1.1512 / 14   Zo filmit % 84.08 / Y0.0457 / 2.2.397 % 11.92 / Y. 1.533 / 2.117.28 2.1728 % 0.085 / Y. 1570 / 2.0.087		Curr C:VL Loac	ent folder Jsers\Pub Read o Copy direcently o	data file to used data I ement 22-0	l	Save.

Manfred Weber

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