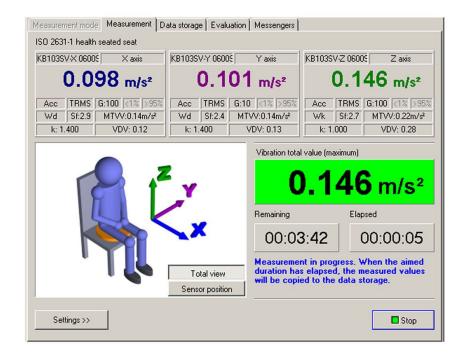
# **Software Module Whole-Body Vibration**

## **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**

Notice

	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				

Scope of delivery VM-BODY Kit: 3 VM-BODY; 2 M302; KS963B100-S; 034-B711f-BNC

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

E Co Settings	Measurement can be started.
Sensor Fill data storage Report	Measurement according to LärmVibrationsArbSchV from 06.03.2007
Reports of data storage Reports of data storage Reports of assessment AdschV 2007 (whole body vibration) F seted position F Seted position F Feet Standing position F Seted position F Seted position F, Supporting seat surface F, Seted position F, Seted po	Measurement of whole-body vibrations health assessment is reated position sensor on supporting set surface frequency weighting of axes: X Wd Y: Wd Z: Wk K-actors for total-value-actuation: X 1.400 Y: 1.400 Z: 1.000 Assessment A(B) = 0.50 m/2*. Action value A(B) = 0.80 m/2*. Limit value Z A(B) = 1.15 m/2*. Limit value X, Y
⊢ Feet □- I Standing position ↓ Feet □- Feet	Aimed measuring time 00:03:47 hh:mm:ss 150 Integration time of 1.000 Seconds 150
Pelvis	Daily exposure time 08:00:00 hh:mm:ss
Show all measurement modes	Delay to start 2 Seconds
Show only standards	Clone

Measurement mode		X(m/s²)	Y(m/s²)	Z(m/s2)	Total	Assessmen
1. ISO 2631-1 comfort/perception seated seat (no backrest me	ļ	0.200	0.220	0.629	0.696	acceptable
2. ISO 2631-1 health seated seat	ļ	0.097	0.350	0.019	0.350	good
3. ISO 2631-1 health seated seat	I	0.046	0.220	0.156	0.220	good
4. ISO 2631-1 health seated seat	ļ	0.387	9.824	0.330	9.824	bad
Overall assessment		Data	folder			
1. ISO 2631-1 health seated seat       Measurement performed on Measuremerk performed on Door Alg/Druction     9/18/2008 at 4.09.21 PM 0.00110 / 1.000 s Door Alg/Druction       Door Alg/Druction     0.50 m/3/ 4b no increased health mill Allowed daily exposure     18.11 / 1d 5.01 mill       % of limit     % 8.408 Y 10.0457     Y 10.005 (2.237 Y 11.020 (2.1000)       Creat Factor     % 119.237 (Y 1.733)     Y 11.728 Y 11.728       MTVV (m/4)     % 10.507 (Y 1.570)     Y 10.721		C:V.	Read o Copy direcently o	data file 1 to used data I	folder:	Matrix\Data\\ Save
Measurement performed on Measure / MTVV Intime Dose Al8/Duration     9/18/2008 at 4.09.21 PM 0.0011.01 / 1,000 s       Dose Al8/Duration     0.350 m/2* / 8h Alswed daily exposure     0.350 m/2* / 8h Interested basis       Allowed daily exposure     0.6118.11 / 1d     2.2.397 2 × 0.800       Limik value (m/2)     X.1150     Y.1150     2.0.800 2.11728		C:W Load	Jsers\Pub Read o Copy direcently o	data file 1 to used data 1 ement 22-0	folder:	Save

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