VM100 Kit for Hand-Arm and Whole-Body VM100A-HA2WB

Application

- Based on the balancing software license VM100-HUM for the vibration analyzers VM100A and VM100B
- Includes the 9-channel Vibration Analyzer VM100A, sensors and accessories
- Measurement of the vibration effect on the hand-arm system at two handles
- Measurement of the vibration effect on the body via seat, backrest and feet
- Hand-Arm: Vibration Total Value (Ahv) according to ISO 5349-2 / ISO 8041-1
- Hand-Arm:Vibration Peak Magnitude VPM for isolated and repeated shock to ISO/DIS 5349-4
- Whole-Body: Maximum Interval RMS of X/Y/Z to ISO 2631 / ISO 8041-2
- Whole-Body: Maximum Vibration Dose Value(VDV) of X/Y/Z to ISO 2631 / ISO 8041-1
- Occupational health measurements to EU directive 2002/44/EC and development-related measurements on hand-held tools
- Suitable for hand-arm measurements according to the EU Machinery Regulation (EU) 2023/1230, Section 2.2.1.2
- Measurement of automotive ride comfort to GB /T 4970 with 3 triaxial sensors

Properties

- Easy to use and clear user guidance
- Simultaneous display of 3 different meaurements, e.g. for 2 handles and whole-body
- Display of 3 axis values (X/Y/Z) for each sensor and 3 total values
- Graphical plot display up to 10 hours
- Display of the remaining work time before reaching the exposure limit value
- External reset via dgital input
- Advantageous in combination with the FFT analysis included in the scope of delivery

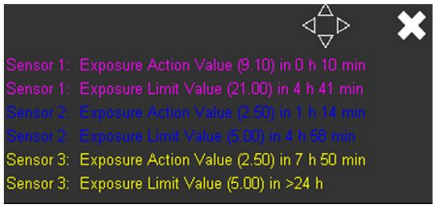
Manfred Weber
Metra Mess- und Frequenztechnik in Radebeul e.K.

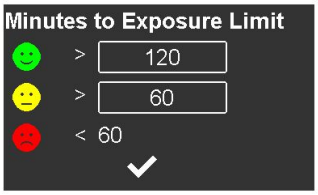
Technical Data

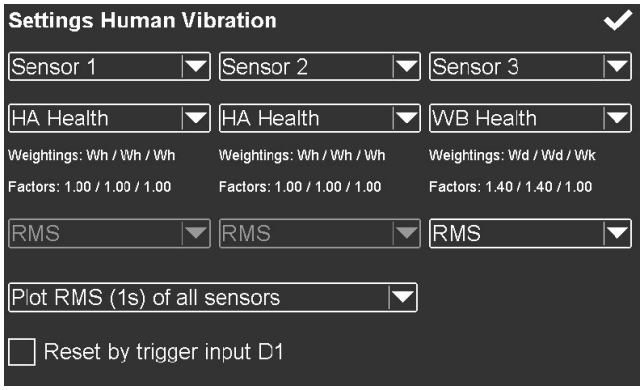
Measuring channels	9
Weighting filters hand-arm	Wh and band filter 6.3 – 1250 Hz
Weighting filters whole-body	Wb, Wc, Wd, We, Wj, Wk, Wm and band filter 0.4 – 100 Hz
Operating modes	Vibration Total Value (Ahv) for hand-arm health evaluation to ISO 5349-2
	Vibration peak magnitude (VPM) for hand-arm to ISO/DIS 5349-3
	Maximum interval RMS for whole-body vibration to ISO 2631
	Maximum vibration dose value (VDV) for whole-body vibration to ISO 2631
	Maximum transient vibration value (MTVV) to ISO 2631
	Crest factor for whole-body vibration to ISO 2631
Plot diagram	Up to 10 h running RMS of X/Y/Z or Ahv/VPM
Data export	CSV measurement data table and bitmap screenshot

Scope of delivery

Kit VM100A-HA2WB:
VM100A Vibration Analyzer, 9 channels
2 triaxial accelerometers KS963B10
2 Sensor cable, 3 m
2 Hand-held adapters model 141B
2 Handle adapters for cable ties model 143B
Sensor calibration adapter model 028
Triaxial seat pad accelerometer KS963B100-S







Manfred Weber
Metra Mess- und Frequenztechnik in Radebeul e.K.
Meissner Str. 58a
01445 Radebeul
Tel. +49 (0)351 836 2191
Internet: www.MMF.de
Email: Info@MMF.de
Fax: +49 (0)351 836 2940