



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

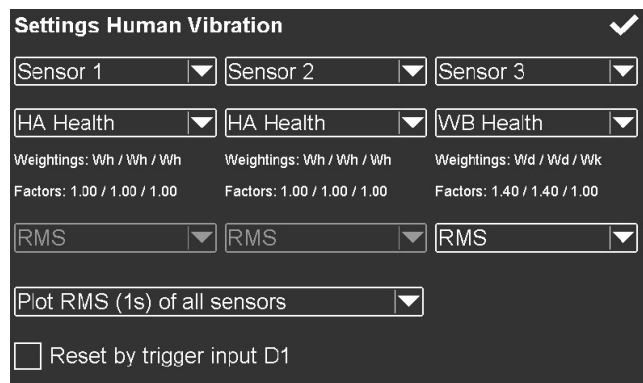
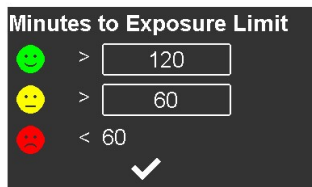
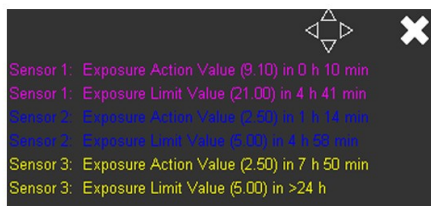
- Easy to use and clear user guidance
- Simultaneous display of 3 different measurements, e.g. for 2 handles and whole-body
- Display of 3 axis values (X/Y/Z) for each sensor and 3 total values
- Graphical plot display up to 10 hours
- Display of the remaining work time before reaching the exposure limit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

Technical Data

Measuring channels	9
Weighting filters hand-arm (ISO 8041-1)	Wh and band filter 6.3 – 1250 Hz
Weighting filters whole-body (ISO 8041-1)	Wb, Wc, Wd, We, Wj, Wk, Wm and band filter 0.4 – 100 Hz
Overall values for hand-arm vibration to ISO 5349-2	Vibration Total Value (Ahv) Interval RMS values X/Y/Z
Overall values for hand-arm vibration with shocks to ISO 5349-3	Vibration Peak Magnitude (VPM) Peak values X/Y/Z Vibration Shock Index (VSI) Repetition Rate (R)
Overall values for whole-body vibration to ISO 2631	Interval RMS values X/Y/Z Maximum RMS (MTVV) Crest factor Vibration Dose Value (VDV)
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 027
 Triaxial seat pad accelerometer KS963B100-S



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