



Application

- Based on the balancing software license VM100-HUM for the vibration analyzers VM100A and VM100B
- Includes the Vibration Analyzer VM100B, sensor and accessories
- Measurement of the vibration effect on the hand-arm system
- Vibration Total Value (Ahv) according to ISO 5349-2 / ISO 8041-1
- Vibration Peak Magnitude VPM for isolated shock to ISO/DIS 5349-4
- Occupational health measurements to EU directive 2002/44/EC and development-related measurements on hand-held tools
- Suitable for measurements according to the EU Machinery Regulation (EU) 2023/1230, Section 2.2.1.1

Properties

- Easy to use and clear user guidance
- Simultaneous display of 3 different measurements, e.g. Ahv, VPM, unweighted
- Display of 3 axis values (X/Y/Z) and 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
- Expandable for whole-body vibration (compare VM100B-HAWB)

Technical Data

Measuring channels	3 (X/Y/Z)
Weighting filters hand-arm (ISO 8041-1)	Wh and band filter 6.3 – 1250 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)
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 VM100B-HA:
 VM100B Vibration Analyzer, 3 channels
 Triaxial accelerometer KS963B10
 Sensor cable, 3 m
 Hand-held adapter model 141B
 Handle adapter for cable ties model 143B
 Sensor calibration adapter model 027

Sensor 1: Exposure Action Value (9.10) in 0 h 10 min
 Sensor 1: Exposure Limit Value (21.00) in 4 h 41 min
 Sensor 2: Exposure Action Value (2.50) in 1 h 14 min
 Sensor 2: Exposure Limit Value (5.00) in 4 h 58 min
 Sensor 3: Exposure Action Value (2.50) in 7 h 50 min
 Sensor 3: Exposure Limit Value (5.00) in >24 h

Minutes to Exposure Limit

	>	120
	>	60
	<	60

✓

Settings Human Vibration ✓

Sensor 1 ▼ Sensor 1 ▼ Sensor 1 ▼

HA Health ▼ HA Shock ▼ HA Unweighted ▼

Weightings: Wh / Wh / Wh Weightings: HAu / HAu / HAu Weightings: HAu / HAu / HAu

Factors: 1.00 / 1.00 / 1.00 Factors: 1.00 / 1.00 / 1.00 Factors: 1.00 / 1.00 / 1.00

RMS ▼ VPM ▼ RMS ▼

Plot RMS (1s) of all sensors ▼

Reset by trigger input D1

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