# Vibration Meter

**VM24**


## Application

- Machine condition monitoring to ISO 20816-
- General vibration measurement in laboratory and industry
- Quality control

## Properties

- Measurement of vibration acceleration, velocity and displacement
- True RMS, peak value and crest factor
- Precision shear type accelerometer with magnetic base
- Automatic detection of measuring points via the sensor base with electronic VMID measuring points
- Graphical trend display
- Memory for 16000 measurements
- USB interface
- PC software for measuring point management to MIMOSA convention (ISO 13373-1) and measuring data archiving
- Brilliant, power-saving colored OLED display
- Economic AAA batteries or accumulators
- Pocket-sized

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## Technical Data

| Measurement functions | | |
|---|---|---|
| Measurands | Vibration acceleration | |
| | Vibration velocity/severity | |
| | Vibration displacement | |
| Overall values | True RMS value | |
| | True pak value | |
| Measuring range acceleration | 0.1 to 240 | m/s² |
| Measuring range velocity | 0.1 to 1000 | mm/s |
| Measuring range displacement | 0.01 to 60000 | µm |
| Accuracy | ±5 (±2 digits) | % |
| ADC resolution | 24 | Bit |
| Vibration trend | Graphical history of the saved vibration values | |
| Lower frequency limit acceleration | 0,1; 0,2; 3; 1000 | Hz |
| Lower frequency limit velocity | 2; 10 | Hz |
| Upper frequency limit acceleration | 1000; 10000 | Hz |
| Upper frequency limit velocity | 1000 | Hz |
| Upper frequency limit displacement | 200 | Hz |
| Indication | OLED; RGB; 128 x 160 pixels | |

| Connectors | | |
|---|---|---|
| Input channels | 1 | |
| Input signals | Low power IEPE | |
| Input connector | Socket Binder 711; 3 pins | |
| IEPEconstant current | 1.9 to 2.9 | mA |
| Digital interfaces | USB 2.0 FS; CGC mode; ASCII command set; Binder 712; 8 poles | |

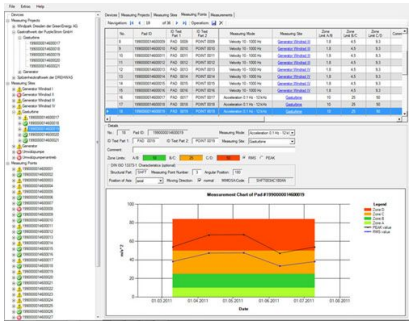
| Power Supply | | |
|---|---|---|
| Battery | 3 x LR03 / HR03 / AAA | |
| Battery operating time | 8 to 12 | h |
| External supply voltage | 5 (USB) | VDC |

| Case Data | | |
|---|---|---|
| Dimensions without connectors | 125 x 65 x 27 (H x W x D) | mm |
| Case material | ABS | |
| Weight | 140 (without sensor) | g |
| Operating temperature range | -20 to 60 (95 % rel. humidity without condensation) | °C |

**Scope of delivery**
Accelerometer KS82L with spiral cable
USB cable
VMID measuring point sample
Carrying case

**Optional accessories**
VMID measuring points
sensor probe VM2x-T
PC software VM2x Measurement Data Base

**Notice**
Upon request, we offer an accredited calibration to DIN EN ISO/IEC 17025:2018.



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