



## Application

- Measurements at oscillating conveyors, vibrating screens and separators
- Machine condition monitoring to ISO 20816-
- General vibration measurement in laboratory and industry
- Quality control

## Properties

- Measurement of vibration amplitude or displacement
- Measurement of main frequency
- Measurement of vibration velocity or severity
- Peak-to-peak or RMS
- Automatic detection of measuring points via the sensor base with electronic VMID measuring points
- Precision shear type accelerometer with magnetic base
- Memory for 16000 measurements
- USB interface
- Brilliant, power-saving colored OLED display
- Economic AAA batteries or accumulators
- Pocket-sized

## Technical Data

### Measurement functions

Measurands	Vibration velocity/severity	
	Vibration displacement	
Overall values	True RMS value	
	True pak-to-peak value	
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 velocity	2	Hz
Upper frequency limit velocity	100; 1000	Hz
Upper frequency limit displacement	60; 200; 300; 1000	Hz
Frequency analysis	FFT	
	512 points	
	For main frequency detection	
	No spectral display	
Indication	OLED; RGB; 128 x 160 pixels	

### Connectors

Input channels	1	
Input signals	Low power IEPE	
Input connector	Socket Binder 711; 3 pins	
IEPE constant 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**    sensor probe VM2x-T  
                                  VMID measuring points

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

Manfred Weber

**Metra Mess- und Frequenztechnik in Radebeul e.K.**

Meissner Str. 58

Internet: [www.MMF.de](http://www.MMF.de)

01445 Radebeul

Email: [Info@MMF.de](mailto:Info@MMF.de)

Tel. +49 (0)351 836 2191

Fax: +49 (0)351 836 2940

03.23

