



## Application

- Contains all components for triaxial measurement and monitoring of vibrations of buildings and other large structures
- Prevention of damages in buildings due to vibration
- Vibration monitoring during construction works
- Autonomous operation with data recording and remote alarming via SMS
- Supported standards: DIN 4150-3; BS 7385; SN 640312a; Circulaire du 23/07/86

## Properties

- Integral triaxial accelerometer with high sensitivity
- Large LCD for vibration values, main frequency and spectral graphics
- Main frequency detection by FFT
- Fail-safe user guidance
- Time and event triggered data logger for ten thousands of measurements
- SMS transmission of measurements with time stamp at alarm events with optional VM40-MODEM
- Relay output for external alarm devices, eg. the alarm light VM40-L
- USB interface for transmission of stored measurements to the included PC software
- Built-in rechargeable battery with long operating time
- Robust and waterproof aluminum case
- Optional tripod floor plate with exchangeable feet for different floor types

## Technical Data

### Measurands and Ranges

Vibration measurands	Vibration acceleration	
	Vibration velocity	
Overall values	True pak value	
	Vector sum of X, Y, Z	
Measuring range velocity	0.1 to 2400	mm/s
Accuracy	±3 (±2 digits at reference frequency 16 Hz )	%
ADC resolution	24	Bit
Lower frequency limit acceleration	0.8	Hz
Lower frequency limit velocity	0.8	Hz
Upper frequency limit acceleration	100; 395	Hz
Upper frequency limit velocity	100; 395	Hz
Frequency analysis	FFT	
Indicators	LCD, back light; 128 x 64 pixels	
	LEDs for warning and alarm	

### Connectors

Input channels	3	
IEPE constant current	2	mA
Relay output	100 VDC; 2 A; 3 pin socket Binder 712	
Digital interfaces	USB 2.0 FS; Binder 712; 8 poles	

### Power Supply

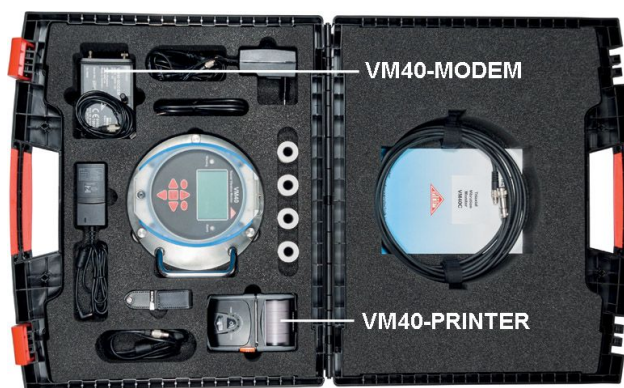
Battery	NiMH; 4.8 V; 9 Ah; built-in	
Battery operating time	150 to 360	h
External supply voltage	5	VDC
Supply connection	Binder 712; 8 pins	

### Case Data

Dimensions without connectors	150 x 140 x 80 (L x W x D)	mm
Case material	Aluminum	
Weight	2000	g
Protection grade	IP67	
Operating temperature range	-20 to 60 (95 % rel. humidity without condensation)	°C

**Scope of delivery**      USB cable and charger

**Optional accessories**      VM40-BP Tripod floor plate  
 VM40-MODEM 4G/2G cellular modem; 4G (LTE B3, B8, B20) und 2G (E-GSM-900, DCS-1800)  
 VM40-PRINTER Mobile report printer with Battery  
 VM40-L Alarm Beacon with batteries



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