



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 alerting via internet SMS
- Supported standards: DIN 4150-3; BS 7385; SN 640312a; Circulaire du 23/07/86
- Remote monitoring functions

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
- Data connection to IoT sensor data platforms AskSensors and ThingSpeak via optional VM40-MODEM
- SMS transmission of measurements with time stamp at alarm events via VM40-MODEM
- Radio-controlled beacon light VM40-R, e.g. for construction machine operators as optional accessory
- 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

Measurement functions

| | | |
|------------------------------------|--|------|
| 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 | |
| Indication | LCD, back light; 128 x 64 pixels | |
| | LEDs for warning and alarm | |

Connectors

| | |
|--------------------|---------------------------------------|
| Input channels | 3 |
| 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

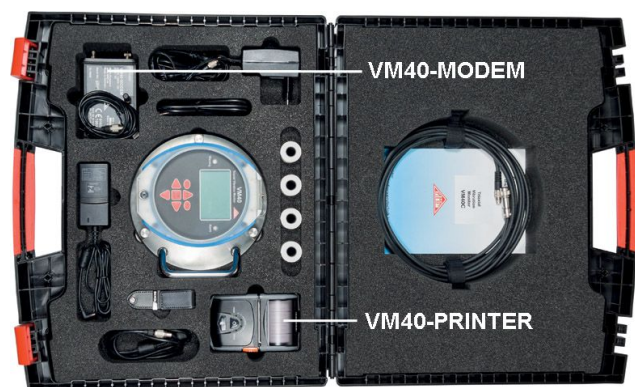
Optional accessories VM40-BP Tripod floor plate

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-R1/R2 Radio-controlled beacon light

VM40-L Alarm Beacon with batteries



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