

EARTHQUAKE RECORDING INSTRUMENT (ERI) model CE-VM40C

DPWH & OBO Compliant



Triaxial acceleration meter / Mobile version with NiMH battery / FFT analysis
IP 64 protection / Internal memory for up to 100,000 readings / SMS alert functionality

The CE-VM40C EARTHQUAKE RECORDING INSTRUMENT (ERI) or Accelerograph was designed for vibration and shock metering on buildings, bridges, towers, and other artificial structures. The Accelerometer measures vibrations in accordance to DIN 4150-3, BS 7385 and SN 640312A standards.

With its internal memory for up to 100,000 readings, the CE-VM40C Accelerograph can determine the strength of a Seismic event and the effect of construction sites, traffic, or industrial processing on buildings over a long period of time. You can choose between time-based and event-based recording, as well as between recording of short-time and long-time vibrations. It is also possible to set threshold levels which trigger an alarm signal when exceeded. **With the built-in GSM module (optional), the device can send you SMS notifications once the alarm is triggered.**

Specifications

Measuring units:	Peak value of vibration speed Peak value of vibration acceleration
Supported standards:	DIN 4150-3; BS 7385; SN 640312A
Vibration sensor:	triaxial piezo-electric acceleration sensor
Display range (peak) acceleration:	0.001 ... 15 m/s ²
Display range (peak) speed:	0.01 ... 2,400 mm/s at 1 Hz 0.01 ... 30 mm/s at 80 Hz (frequency-dependend)
Accuracy (reference value: 16 Hz):	±3 %, ±2 digits, 100 Hz low pass ±3 %, ±2 digits, 398 Hz low pass
Display:	LCD, b&w, 128 x 64 pixel, backlight 3 peak values (x/y/z direction) or vector sum, main frequency, 50-lines FFT spectrum, battery status, date and time
Alarm:	warning and alarm LEDs next to the display relay output (chargeover contact, max. 100V DC / 2 A)

FDAS & BGM/PA Integration:	Yes (customized)
GSM modem (optional):	Quad band (850, 900, 1800, 1900 MHz) (optional)
SMS alarm function:	SMS notification when alarm is triggered SMS contains x/y/z readings, frequency, date, and device name
Additional GSM functions:	Phone call with headset (optional VM40-HS adaptor) (optional)
Memory:	Built-in micro-SD card Max. 100,000 readings (x/y/z, frequency, date, time, device name)
Analogue digital converter:	24 bit, sigma-delta
USB interface:	USB 2.0, CDC mode, via VM2x-USB cable
Battery:	NiMH, 4.8 V, charging time: 10 h No battery power consumption when connected via USB (e.g. to an USB powerbank or a USB mains / AC adaptor)
Battery service life:	5-15 days, depending on the temperature & duty cycle
Languages:	German, English
Temperature range:	-20°C ... 60°C / -4°F ... 140°F
Protection class:	IP 64
Dimensions:	150 mm x 140 mm x 80 mm / 5.9 in x 5.5 in x 3.1 in
Weight:	2 kg / 4.4 lbs
Calibration after install:	1-2 yrs
Warranty:	1 year against factory defects only.
Delivery:	60 business days from PO and downpayment

Made & Calibrated in Germany.

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