

Portable Vibration Meter

VIBRA-CHECK™ VM2800 and VM3800

HAND-HELD METERS



VM2800

VM3800

The economical and compact VIBRA-CHECK™ Vibration Meter is an ideal tool for obtaining spot measurements of machinery vibration. These units are suitable upgrades to the model SH2000 meter.

All three useful measurements are possible. Displacement, velocity, and acceleration modes allow a user to perform basic vibration analysis.

The robust high temperature accelerometer sensor has a removable magnetic mounting base for attachment of a stinger. The sensor is internally protected against thermal shock, electrical noise and amplitude overload.

The handy carrying pouch keeps the meter out of the way, yet ready for use. When it's time to take a reading, simply place the accelerometer on your machine and tilt the pouch up to view display.

Features

VIBRA-CHECK VM2800

- Microprocessor-based measurements
- Accurate, industrial standard piezoelectric accelerometer sensor
- Replaceable coiled cord
- Backlit LCD read out in acceleration, velocity and displacement
- Sensor, cable rated 250°F
- Sensor bias indication
- Standard 9V battery included
- True RMS detection
- Displays peak or RMS units
- English or Metric units
- Optional headphones
- Hard and soft cases included

VIBRA-CHECK VM3800

All above features PLUS:

- Memory capability
- Bearing check
- 10X gain function
- Hold, Peak and Average Functions (see Specifications)

Applications

- Motors & Generators
- Fans, Pumps & Compressors
- Turbines
- Natural Gas Engines
- Piping Vibration
- Accuracy verification of installed shutdown switches and monitoring systems

Specifications

BOTH METERS:

Function: Portable hand-held vibration indicator. Reads vibration level on LCD display.

Units: User-selectable English/Metric units.

Displacement: 0 - 78.7 mil or 0-1999 um, p-p (10 to 1000 Hz)

Velocity: 0 - 7.87 in/sec or 0-1999.9 mm/s, 0-pk, 10-1000 Hz, ISO 2954

Acceleration: 0 - 19.99 g, rms, 10 Hz HP

Accuracy: 5% (10 - 10 kHz)

Battery Indicator: Low, 25%, 50%, 75%, Full

Sensor Indicator: Bias, Normal/ Open/Short Graphical Indicator

Back Light: LED back light, auto off five minutes after pressing any key

Sensor Sensitivity: 100 mVg ± 30% adjustable

Housing Rating: IP 65, with EMI protection.

Power Supply: 9V alkaline battery (approx. 30 hours operation)

Display: 120 x 32 graphic mode LCD

Dimensions: 7.1 x 3.6 x 1.2 in (180 x 92 x 32 mm)

Weight: 10.6 oz (300 grams), including battery.

VM3800 ONLY:

Bearing Condition: 0 - 7.87 in/sec or 0-199.9 mm/s, 0-pk, 500 Hz - 2kHz

Hold Function: Freezes the display

Average Function: Display the average value of the last 10 data points

Pk Hold Function: Displays the maximum value

Gain: x 10, multiplier increases the precision by one (1) decimal place

Memory: Up to 1000 points

Review Function: Recall and display saved data

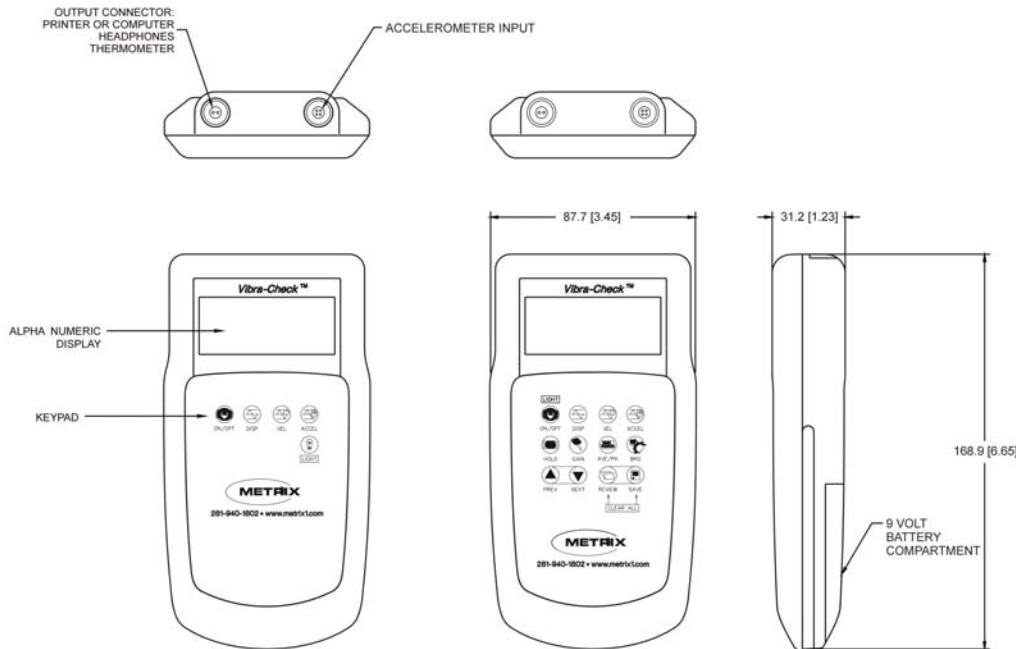
RMS vs. PEAK Readings

The VIBRA-CHECK meter uses an RMS detector. The meter can switch between RMS or peak units.

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VIBRA-CHECK™ VM2800 and VM3800

Dimensions



HAND-HELD METERS

How To Select



VM2800 - Standard Model



VM3800 - Deluxe Model

Accessories

Part Number	Description
99517-008*	Accelerometer Magnet
99517-009*	Spike Detection Probe
99517-010	Headphones for VM2800
99517-011	Headphones for VM3800
99517-012*	Coiled Accelerometer Cable
99517-013*	Soft Carrying Case
99517-014*	Hard Outer Case

*Comes standard with each VM2800 or VM3800.

VIBRA-CHECK™ is a registered trademark of Metrix Instrument Co.



Vibration - Condition Monitoring
and Protection

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