

VM2800/VM3800 PORTABLE VIBRATION METER

Datasheet

OVERVIEW

The economical and compact VIBRA-CHECK™ Vibration Meter is an ideal tool for obtaining spot measurements of machinery vibration. The meter uses an RMS detector, and can switch between RMS or peak units

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

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

VM3800

- All above features PLUS:
- Memory capability
- Bearing check
- 10X gain function
- Hold, Peak and Average Functions (see Specifications)

APPLICATIONS

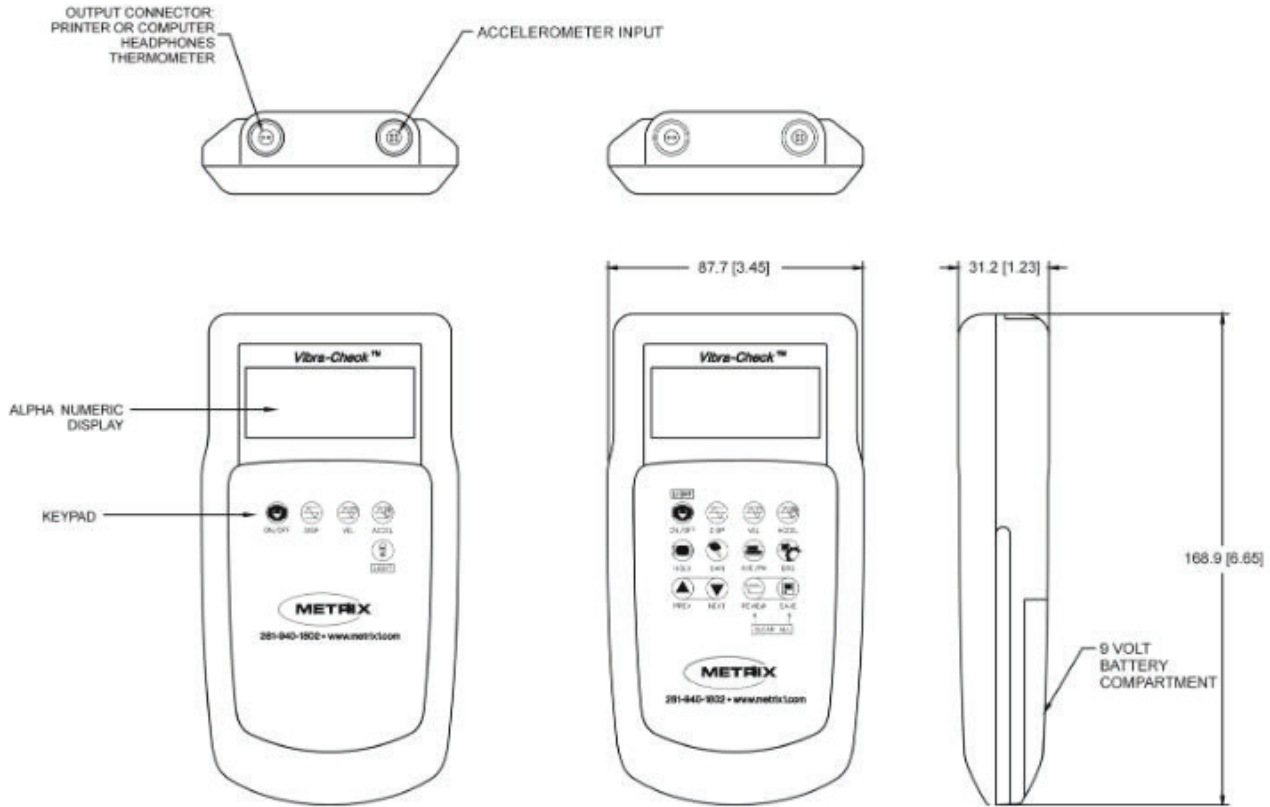
- Motors & Generators
- Fans, Pumps & Compressors
- Turbines
- Natural Gas Engines
- Piping Vibration
- Accuracy verification of installed shutdown switches and monitoring systems
- Turbochargers



SPECIFICATIONS

BOTH METERS	
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
Temperature Rating	-10 degree C to +60 degree C
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
Functions	<ul style="list-style-type: none">• Hold: Freezes the display• Average: Displays the average value of the last 10 data points• Pk Hold: Displays the maximum value• Review: Recall and display saved data
Gain	x 10, multiplier increases the precision by one (1) decimal place
Memory	Up to 1000 points

WEIGHTS AND DIMENSIONS



Dimensions: mm [in]
Weight: 300 g (10.6 oz)

ORDERING INFORMATION

VM2800 - Standard Model



VM3800 - Deluxe Model



ACCESSORIES

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

*Comes standard with each VM2800 or VM3800.