



# ECONOMICAL VIBRATION METER

## MONITORS MACHINERY TO DETERMINE MAINTENANCE NEEDS

HHVB82  
\$750

HHVB82, \$750, shown smaller than actual size.

- ✓ rms or Peak Vibration Readings from 10 Hz to 1 kHz
- ✓ Measures Acceleration Up to 200 m/s<sup>2</sup>
- ✓ Measures Velocity Up to 200 mm/s
- ✓ Auto Shut-Off Function Extends Battery Life
- ✓ Built-In Tilt Stand
- ✓ Reading Hold
- ✓ Stores Minimum and Maximum Readings with Pushbutton Recall
- ✓ Vibration Sensor with Magnetic Mount Included

Poor balance, worn bearings, misalignments, and loose fittings in the structure will increase a machine's vibration levels. By monitoring vibration, a user can determine when machinery needs maintenance. The HHVB82, with its magnetic mount vibration sensor, is ideal for such applications.

### SPECIFICATIONS

**Acceleration Range:** Up to 200 m/s<sup>2</sup>

**Velocity Range:** Up to 200 mm/s

**Frequency Range:** rms or peak vibration readings (peak value = 1.414 rms value), 10 Hz to 1 kHz; sensitivity meets ISO 2954

**Functions:** Auto-off (after about 20 min), reading hold, minimum and maximum storage

**Accuracy:** ±5% + 2 digits reading; 160 Hz, 80 Hz @ 23 ±5°C (73 ±9°F)

**Calibration Point:** Velocity 50 mm/s (160 Hz), acceleration 50 m/s<sup>2</sup> (160 Hz)

**Operating Temperature:** 0 to 50°C (32 to 122°F)

**Operating Humidity:** <80% RH (non-condensing)

**Power:** 9 V alkaline battery (included)

**Sampling Time:** Approximately 1 s



Magnetic mount included.



**Meter Dimensions:** 185 H x 78 W x 38 mm D (7.3 x 3.1 x 1.5")

**Sensor Dimensions:** 16 D x 29 mm H (0.6 x 1.4")

**Meter Weight:** 274 g (0.6 lb)

**Sensor Weight:** 38 g (0.08 lb)

#### SENSITIVITY RELATIVE TO REFERENCE SENSITIVITY @ 80 HZ, ACCORDING TO ISO 2954

FREQUENCY (Hz)	RELATIVE SENSITIVITY		
	NOMINAL VALUE	MINIMUM VALUE	MAXIMUM VALUE
10	1.0	0.8	1.1
20	1.0	0.9	1.1
40	1.0	0.9	1.1
80	1.0	1.0	1.0
160	1.0	0.9	1.1
500	1.0	0.9	1.1
1000	1.0	0.8	1.1

**MOST POPULAR MODELS HIGHLIGHTED!**

#### To Order (Specify Model Number)

MODEL NO.	PRICE	DESCRIPTION
HHVB82	\$750	Vibration meter

Comes with 9 V battery, vibration sensor, cable, magnetic base, rugged case and operator's manual.

**Ordering Example:** HHVB82, vibration meter with magnetic sensor and case, \$750.

#### ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
ME-1833	\$89	Reference Book: Vibration Fundamentals

# omega.co.uk<sup>®</sup>

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

[www.omega.co.uk](http://www.omega.co.uk)



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA  
Stamford, CT.

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England  
0800-488-488  
+44-(0)161-777-6611

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)  
1-800-TC-OMEGA

#### FRANCE

[www.omega.fr](http://www.omega.fr)

0800-466-342

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenfronn, Germany  
0800-8266342

#### BENELUX

[www.omega.nl](http://www.omega.nl)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters