

SPM Vibration Meters

- Piezoelectric Accelerometer
- RMS Value of Vibration Velocity
- Inches/Sec or Millimeters/Sec Display Models

Eliminate Costly Breakdowns Before They Occur

This small, portable meter is designed as a maintenance aid, and measures vibration velocity on a broad frequency range. Two models are available, displaying inches per second or millimeters per second. Overall assessment of machine condition on a regular schedule will point out excessive vibration caused by loose parts, misalignment, or imbalance before major overhaul becomes necessary. Using this maintenance method can help eliminate costly breakdowns or production shuts down.

The vibration meter is lightweight and battery powered. The piezoelectric transducer may be attached with a magnet or mounting screw (both included).

Each Unit Includes: Four AA alkaline batteries, vibration transducer and cable, probe, magnetic base, holding screw connector, carrying case, and instructions.

Specifications

Range:	8575A: 0.05 to 3.93 inches/sec at 10 to 1000 Hz 8576A: 0.1 to 99.9 mm/sec at 10 to 1000 Hz
Resolution:	8575A: 0.01 inches/sec 8576A: 0.1 mm/sec
Accuracy:	8575A: 2% ±0.02 inches/sec 8576A: 2% ±0.2 mm/sec
Display:	3-digit LED
Power Supply:	Four AA alkaline batteries
Size/Weight:	8.25 x 3 x 1.18" HWD/14 oz



Ordering Information

Order #	Mfg #	Description	Price
MP8575A	VIB-11 IN/SEC KIT	Vibration Meter, Inches/Sec	
MP8576A	VIB-10MM/SEC KIT	Vibration Meter, mm/Sec	

SPM Electronic Stethoscope

The Secrets of Machines are in Their Sounds

Eavesdrop on mechanical sounds to locate potential faults. Valve chatter, tappet noise, piston slap, gear and pump noise, and the operation of relays and solenoids...all may be traced and amplified to assess the condition of the equipment.

The instrument has sound amplification and volume controls. Two probe lengths are included to permit easy access to the device under test. The headset has ear cups which help eliminate background noise. Connection to a user-supplied tape recorder is possible.

The entire unit operates via a 9V battery, weighs less than one pound, and comes complete with probe tips and carrying case.

Each Unit Includes: 9V alkaline battery, probe set (ELT-10), earphone headset and cable (EAR-10 and CAB-10), carrying case, and instruction manual.

Ordering Information

Order #	Mfg #	Description	Price
MP8577A	ELS-12 SET	Electronic Stethoscope	



Monarch Vibration Meter/Electronic Stethoscope

Overall-vibration meter provides instant status of tested machinery

The 24470E includes the most common features required for overall-vibration-severity testing per ISO 10816. It's perfect for predictive-maintenance programs aimed at improving machinery reliability and increasing productivity.

- Checks Bearings on Motors, Pumps, Compressors, Gearboxes, Fans, Mills, to Ensure Peak Performance
- Three Measurement Modes: Acceleration, Velocity, Envelope. Vibration-Severity Chart on Front of Instrument Case Provides "At-a-Glance" Machinery Status, Eliminates Separate Tables or Calculations
- Offered as Stand-Alone Meter (24470E) or in Complete "Condition-Monitoring System" (24471E) with On-Time Trending Software and Sensor Kit
- Electronic Stethoscope Function Relates Sound to Vibration-Severity Levels on the Display

Each 24470E Includes: Sensor pak (6400-030), stereo headphones with 3.5 mm "mini" plug, two AA batteries, carrying case, and user's manual.

Each 24471E Also Includes: On-time trending software for Windows™ with electronic media (6400-020), and machinery data worksheet booklet.

Each Sensor Pak Includes: Industrial accelerometer, 100 mV/G, integrated cable with BNC connector, two-pole AlNiCo magnetic base with 1/4" x 28 tap, connecting stud, 1/4" x 28, and stinger/probe, 4.5".



Specifications

Ranges:	0.01 to 19.99G RMS, acceleration; 0.01 to 19.99 inches/sec RMS, 0.1 to 199.9 mm/sec velocity; 0.01 to 19.99 ge peak, envelope
Frequency Range:	10 Hz to 1 kHz, overall; 5 kHz to 10 kHz, envelope
Vibration Sensor:	Piezoelectric accelerometer, 100 mV/G
Display:	3.5-digit LCD with measurement, hold, and low-battery indicators
Power Supply:	Two AA alkaline batteries, approx. 20 hrs continuous use w/o headphones
Size:	6.3 x 3.3 x 1.25" HWD (160 x 83 x 32 mm)
Weight:	2.85 lb (1.3 kg), complete kit

Ordering Information

Order #	Mfg #	Description	Price
MP24470E	6400-011	Vibration Meter/Electronic Stethoscope	
MP24471E	6400-010	Vibration Meter/Electronic Stethoscope System with Software and Sensor Pak	

Metrix Vibration Meters

- Instant Vibration Readings
- Portable, Battery Powered

Ideal for Checking Machine Imbalance and Misalignment

These compact units provide a quick way to test for excessive vibration. Simple to use—just hold the probe end against a vibrating surface and check the meter reading.

Digital readout models 5174VM and 5175VM provide readings of 2"/sec peak or 2"/sec RMS respectively, and respond to vibration in a 10 Hz to 1000 Hz range. They feature an LCD readout, reading hold capability, overrange indication, and low battery indicator.

Each Unit Includes: 9V alkaline battery, carrying case, and instruction manual.

Ordering Information

Order #	Mfg #	Description	Price
MP5174VM	5500-001	Vibration Meter, Digital, 2"/Sec Peak	
MP5175VM	5500-002	Vibration Meter, Digital, 2"/Sec RMS	
MP7321FST	2182	Extension Probe	
MP7322FST	1946	Shaft Rider Fork	



5500-002

Test Instruments — Miscellaneous

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