

Portable Vibration Meter Model 5500



Compact and simple to operate, these economical units are ideal for obtaining spot measurements of machine vibration. Pressing the ON button activates the unit. A vibration reading is then obtained by simply holding the probe tip against the machine and observing the reading on the LCD indicator.

This vibration meter is available with English or metric units. Pressing and holding the ON button will “freeze” the vibration reading such that the unit can be removed from the test point without losing the reading. Releasing the button returns the unit to normal operation.

Power is supplied by a standard 9V battery. A symbol appears on the LCD indicator when the battery is low. The instrument housing is made of high impact polymer. A carrying case with belt loop and battery are included. Optional accessories include a 10” probe extension for difficult to reach areas and a shaft rider fork for measuring

Applications:

- Supplement to FFT Analyzers
- Motors
- Pumps
- Compressors
- Fans
- Natural Gas/Diesel Engines
- Piping Vibration
- Check Vibration Instrument Readings

Features:

- Accurate, peizo-electric accelerometer sensor
- Quick vibration readings
- Includes reading "hold" feature
- Auto power off extends battery life
- 9V battery included
- Intrinsically safe for hazardous areas
- True RMS velocity response

Changing the Battery

a. The unit is powered by a 9V alkaline dry cell. Depending upon the duty cycle of operation, a fresh battery should last about six months. When the battery voltage drops below 5 volts, a battery symbol will appear on the LCD display, indicating that the battery must be replaced. Vibration readings may be inaccurate when the battery symbol is displayed.

b. Loosen the two screws that retain the cover to gain access to the battery. Replace the battery with **ONLY** an alkaline 9V dry cell, such as:

Duracell MN1604
Eveready 522
Rayovac A1604-1

Caution:

Do not install a lithium battery.

The user will nullify the intrinsically safety certification of the Model 5500 if any battery other than an alkaline type is used. The battery must only be changed in a safe area.

The user may not replace the socket head cap screws securing the case cover of the Model 5500 with another type.

Specifications

Function: Portable, hand held vibration meter. Displays vibration level on LCD meter.

Measurement Mode:

5500: Velocity

5500B: Velocity and Displacement

Frequency Response: 10 Hz to 1000 Hz

Temperature Range: -10°C to +70°C

Hazard Rating:

5500: BASEEFA certified intrinsically safe EEx ia IIC T3 Tamb = 60°C

5500B: Non-hazardous locations

Power: Alkaline 9V Dry Cell

Vibration Ranges: See Table

Optional Probe Attachments: Probe Extension and Shaft Rider Fork

ACCESSORIES



Order #107-2182

Probe Extension

254mm (10") long extension slips on vibration meter probe for measurements in tight quarters.



Order #107-1946

Shaft Rider Fork

Slips on vibration meter probe or extension probe and allows measurement of shaft vibration.

HOW TO ORDER....

Model No.	Velocity *	Displacement	Certification
107-5500-001	2.00 inches/sec., peak		X
107-5500-002	2.00 inches/sec., rms		X
107-5500-003	50.0 mm/sec., peak		X
107-5500-004	50.0 mm/sec., rms		X
107-5500B-005	2.00 inches/sec., peak	99.9 mils, pk-pk	
107-5500B-006	2.00 inches/sec., rms	99.9 mils, pk-pk	
107-5500B-007	50.0 mm/sec., peak	2.50 mm, pk-pk	
107-5500B-008	50.0 mm/sec., rms	2.50 mm, pk-pk	

Please request a quote for pricing.

APPLICATION NOTE:

RMS vs. PEAK Velocity Readings

The 5500 and 5500B vibration meters use a true RMS detector. As indicated in "HOW TO ORDER", models are offered with velocity vibration readings scaled after detection for RMS or PEAK units.

The majority of the portable Velocity vibration meters that are purchased are calibrated for PEAK measurement. Most North American vibration level acceptance charts, including METRIX, and permanent vibration instruments with indicators display velocity readings in PEAK units.

If your chart and/or permanent instruments display RMS values (common in Europe) RMS calibration is recommended.