

Portable Vibration Meter

5500

HAND-HELD METERS



Features

- Accurate, piezo-electric accelerometer sensor
- Quick vibration readings
- Includes reading “hold” feature
- Auto power off extends battery life
- Alkaline 9V battery included
- Model 5500 is intrinsically safe for use in hazardous areas
- True RMS velocity response

Applications

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

Note:

For a recording vibration meter with application software, see Model SH2000 (p. 5.02).

Velocity Measurements - Intrinsically Safe

VIBRA-CHECK™ your machines with this compact and simple to operate vibration meter. 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. Comparisons to a vibration severity chart (Page 6.08) indicate acceptance condition.

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 the vibration of exposed shafts.

Verifying a Vibration Instrument Measurement



Specifications

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

Measurands: Velocity units

Frequency Response: 10 to 1000 Hz

Temperature Range:
-10°C to +70°C (+14°F to +158°F)

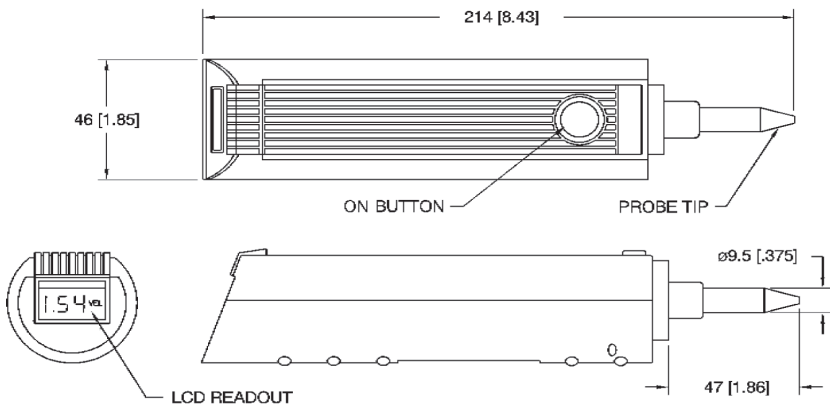
Hazard Rating (Model 5500)
CENELEC intrinsically safe certified,
ATEX EEx ia IIC T3

Power: Alkaline 9V Dry Cell

Vibration Ranges: See Table

Optional Probe Attachments:
Probe Extension and Shaft Rider Fork

Weight & Dimensions



Weight:
Meter w/ Case = 1.2 Kg [2.50 lbs.]

Dimensions in mm [inches]

Application Note:

RMS vs. PEAK Velocity Readings

For velocity vibration readings, the 5500 vibration meter uses an RMS detector. As indicated in "How To Select", each model is offered with readings calibrated after detection either in direct RMS or scaled 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 ours, and permanent vibration instruments with indicators show velocity severity in PEAK units.

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

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

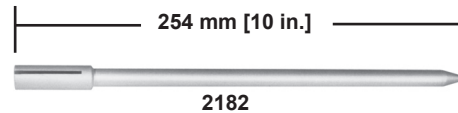
How To Select

Model No.	Velocity*	Displacement	Certification
5500-001	2.00 inches/sec., peak	N/A	
5500-002	2.00 inches/sec., rms	N/A	
5500-003	50.0 mm/sec., peak	N/A	
5500-004	50.0 mm/sec., rms	N/A	

*See Application Note.

Accessories

Model 2182 Probe Extension
254 mm (10") long extension slips on vibration meter probe for measurements in tight quarters.



Model 1946 Shaft Rider Fork
Slips on vibration meter probe or extension probe and allows contact measurement of shaft vibration.

