

VM516A0 Vibration Meter

Innovating since 1977

Hand-held Vibration meter(VM516AO) is a portable and easy to use instrument which is used in conjunction with Integrated Electronics Piezoelectric (IEPE) accelerometers to measure mechanical vibrations in terms of acceleration, velocity and displacement. It is suitable for both laboratory and field conditions.

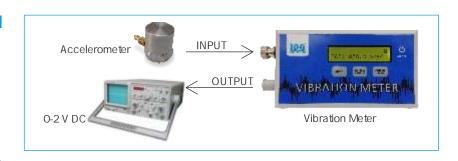
This instrument can be used to monitor vibration levels in production machines on a periodic basis, so that action can be taken before a complete machine failure. It's operation is simple and quite suitable for use by nonscientific personnel not conversant with electronic instrumentation. In combination with IPA piezoelectric accelerometers the unit provides direct read out of vibration parameters on a LCD screen in both Metric and Imperial units. The device uses a 2200mah rechargeable battery which gives a battery life up to 70hrs continuously following a full charge. It features a dedicated power save button for extended battery life. An output of 2V DC (F.S) is available for recording purpose.

Applications

- > Industrial Blowers
- ➤ Cooling Towers
- > Electric Motors
- ➤ Diesel Engines
- > Small Turbines
- > Industrial Gearboxes
- > Centrifuges and Decanters
- > Centrifugal Pumps
- > TestBenches
- > Conveyers



BLOCK DIAGRAM



TECHNICAL SPECIFICATIONS

SENSOR UNIT

Electrical

Current Exitation : 2-20mA : 5 to 24V DC Exitation voltage

: Signal return connected to casing Grounding

Physical

: Compression mode Construction

(sensing Geometry)

: Base dia 18mm, height 19mm

Connector position : Side

: Stainless steel Housing material : Hermetic seal Sealing Mounting : M4 bolts

Sensing element : Piezoelectric crystal **Performance**

Measuring range : 0.2g to 50g Sensitivity(+-5%) : 45mv/g

Frequency range : 10Hz to 5000Hz

: >15KHz Resonant Frequency Transverse sensitivity : 5%

Environmental

Temperature range : 0 to 60°C Maximum shock :1000g : IP 65 Casing protection

ACCESSORIES

Output connection

Dimensions in mm

Weight







Magnetic Base

CONTROL UNIT	
Model Number	VM516A0
Frequency range	10Hz to 10KHz
Accelerometer	IEPE
Sensitivity calibration	Adjustable for accelerometers having Sensitivity
	from 10mV/m/s ² to 100mV/m/s ²
Display	6 x 2 LCD with yellow back light
Measurementrange	Metric and Imperial units.
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Display Measurement range 000.0 - 200.0 m/s² (pk), (10Hz to 10KHz) Acceleration 00.0 - 20.3 g (pk), Velocity 00.00 - 20.00 cm/s (rms), (10Hz to 1KHz) 00.00 - 7.87 inch/s 0.001 - 2.000mm (pk - pk), (10Hz to 500Hz) Displacement 0.003 - 78.7 mils (1mil = 1/1000 of an inch)Analog DC output 2V F.S Output Operating temperature 0° to 50° C $A - \pm 5\%$ of FS Accuracy $V - \pm 5\%$ of FS $D - \pm 5\%$ of FS 7.4V 2200mah rechargeable battery Power supply (50hrs of continuous operation) Auto-off After 3 minutes of no key operation Low battery indication Yes Power Save Yes External supply NA BNC Connector Input connection

BNC connector

295 grams

150 x 82 x31

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APPLICATIONS









