



Model PVM100 Digital portable vibration meter

Features

- Self-contained meter with battery
- Complete accessory kit
- Large digital display
- Uses industry-standard IEPE accelerometers
- Audio signal output jack
- Low-power electronic circuit

Benefits

- All components together in one case
- Easy-to-see display
- One-button operation for ease of use
- Audio output allows listening to the vibration signal with mini-headphones
- Three-in-one vibration measurement: acceleration, velocity, displacement

The PVM100 incorporates a large-digit liquid crystal display with one-button operation making it the easiest vibration meter to use.

The accessory kit supplied with the PVM100 helps user acquire vibration readings fast. Accelerometer mounting options allow using the optimum probe/tip/mount for the frequency range required.

	English ¹	Metric ¹
Pickup	model 784A, 100mV/g	
Input terminal.....	BNC connector, 3 mA IEPE powering	
Measurement range: ¹		
Acceleration.....	0 to 19.99 g	199.9m/sec ³
Acceleration resolution.....	0.01 g	0.1 m/sec ³
Velocity.....	19.99 ips	199.9 mm/sec
Velocity resolution.....	0.01 ips	0.1 mm/sec
Displacement.....	199.9 mil	1.999 mm
Displacement resolution.....	0.1 mil	0.001 mm
Frequency range: ^{1,2}		
Acceleration.....	5 Hz to 5,000 Hz, within 5%	
Displacement and velocity	10 Hz to 5,000 Hz, within 5%	
Limit of error: ³		
Acceleration measurement	3% of reading ± 1 digit	
Displacement and velocity measurement....	5% of reading ± 1 digit	
Temperature stability	+0.15% of reading/°C (TYP)	
AC output, 3.5 mm diameter mini phone plug:		
Output impedance	1 kΩ	
Acceleration	100 mV/g	10mV/m/sec ²
Velocity	70 mV/ips	10 mV/mm/sec
Displacement.....	20 mV/mil	1 volt/mm
Noise level	1 mV (RMS) or less	
Digital display:		
Liquid crystal display.....	3(1/2) digits	
Update rate	3 times/second	
Battery.....	(1) Energizer 522 (9 V), or equal	
Operating power supply voltage.....	6 volts, minimum	
Battery voltage alarm.....	6 volts	
Continuous operating time.....	20 hours or more	
Operating temperature range:		
Minimum.....	14°F	-10°C
Maximum.....	122°F	50°C
Dimensions:.....	3x5x1, in	75x130x24, mm
Weight (with battery).....	9 oz	280 gram

Notes: ¹ Measurements displayed in English or Metric units, as indicated on the frontpanel label and determined at purchase.

² Maximum acceleration limit is 20 g (peak) while measuring velocity or displacement.

³ All amplitude accuracies are dependent on the proper mounting of the 784A.

⁴ At 10 g (peak), 40 mil (P-P), 20°C ± 5°C.

Accessories supplied: 784A accelerometer, SF6 mounting stud, R2-6-J5A-6 cable, B3 flat magnet, PT2 probe tip, PVM100 operating guide, and plastic carrying/storage case

Wilcoxon Research Inc
21 Firstfield Rd
Gaithersburg, MD 20878
USA

Tel: 301 330 8811
Fax: 301 330 8873

Email: sensors@wilcoxon.com

www.meggitt.com

MEGGITT
smart engineering for
extreme environments

98906 Rev.C.1 07/06