

## **PVM100** *Digital Vibration Meter*

- **Self-contained meter with battery**
- **Complete accessory kit**
- **Large digital display**
- **Display holds the measurement while the pushbutton is pressed**
- **Uses industry-standard IEPE accelerometers**
- **Output signal jack**
- **Low-power electronic circuit**



- :: All components together in one case
- :: Easy-to-see display
- :: Two-button operation for ease of use
- :: Output signal can be amplified for listening to vibration signal with appropriate external amplifier
- :: Three-in-one vibration measurement: acceleration, velocity, displacement

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

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

### **Accessories supplied:**

- 784A Accelerometer,
- SF6 mounting stud,
- R6-2-J5A-6 cable,
- B3 flat magnet,
- PT2 Probe tip,
- PVM100 Operating Guide,
- plastic carrying/storage case

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	English <sup>1</sup>	Metric <sup>1</sup>
Pickup:	Model 784A, 100 mV/g	
Input terminal:	BNC connector, 3 mA IEPE Powering	
Measurement range: <sup>2</sup>		
Peak Acceleration	19,99 g	199,9 m/s <sup>2</sup>
Acceleration resolution:	0,01 g	0,1 m/s <sup>2</sup>
R.M.S. Velocity	19,99 ips	199,9 mm/s
Velocity resolution:	0,01 ips	0,1 mm/s
Peak-to-Peak Displacement	199,9 mil	1,999 mm
Displacement resolution:	0,1 mil	0,001 mm
Frequency range: <sup>2,3</sup>		
Acceleration	5...5.000 Hz, within 5%	
Displacement and Velocity	10...5.000 Hz, within 5%	
Limit of error: <sup>4</sup>		
Acceleration measurement	3% of reading ±1 digit	
Displacement and velocity measurement	5% of reading ±1 digit	
Temperature stability:	Typ. +0,15% of reading/°C	
AC output, Ø3,5 mm mini phone plug:		
Output impedance	1 kΩ	
Acceleration, ±2 Vmax	100 mV/g	10 mV/m/s <sup>2</sup>
Velocity, ±2 Vmax	70 mV/ips	10 mV/mm/s
Displacement, ±2 Vmax	20 mV/mil	1 V/mm
Noise level:	1 mV (rms) or less	
Digital display:		
Liquid Cristal Display	3 ½ digits	
Update rate, nominal	3 times/second	
Battery:	1 Energizer 522 (9 V), or equal	
Operating power supply voltage	Min 6 V	
Battery voltage alarm	6 V	
Continuous operating time:	20 hours or more	
Operating temperature range:	14...122°F	-10...50°C
Dimensions:	3 x 5 x 1 inch	75 x 130 x 24 mm
Weight (with Battery)	9 oz.	280 Gramm

**Notes:**

- <sup>1</sup> Measurements displayed in English or Metric units, as indicated on the front panel label and determined at purchase.
- <sup>2</sup> Maximum acceleration limit is 20 g (peak) while measuring velocity or displacement.
- <sup>3</sup> All amplitude accuracies are dependent on the proper mounting of the 784A
- <sup>4</sup> at 10 g (peak), 40 mil (P-P), 20°C ±5°C

\*Specifications are subject to change without notice/Copyright Althen 02-2006

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