

**Pen type, Acceleration, Velocity, IP-65  
Metric & Imperial unit**



# VIBRATION METER

**Model : PVB-820**

**ISO-9001, CE, IEC1010**



Soft carrying case, CA-52A  
( Optional )

+982165565901

+982144584619

+989034119385

Magnetic base



پتروفهران گستر جنوب

**FGJ-NDT.IR**

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**Lutron**

**LUTRON ELECTRONIC**

**The Art of Measurement**

**Acceleration, Velocity  
RMS measurement, Metric & Imperial unit  
PEN VIBRATION METER  
Model : PVB-820**



**FEATURES**

- \* Applications for industrial vibration monitoring :  
All industrial machinery vibrates. The level of vibration is a useful guide to machine condition. Poor balance, misalignment & looseness of the structure will cause the vibration level increase, it is a sure sign that the maintenance is needed.
- \* Pen type digital vibration meter, vibration sensor is built in, all in one.
- \* Acceleration, Velocity measurement, RMS measurement value.
- \* Metric & Imperial display unit.
- \* Frequency range 10 Hz - 1 kHz, sensitivity relative meet ISO 2954.
- \* Microcomputer circuit, intelligent function, high accuracy.
- \* LCD display, easy read out.
- \* Complete set with the Test pin and the Magnetic base are the standard accessories.
- \* Built-in low battery indicator.
- \* Heavy duty & compact housing case.
- \* IP65 protection.
- \* Compact size, light weight.
- \* Soft carrying case is the optional accessory

**GENERAL SPECIFICATIONS**

Display	LCD, size : 20 mm x 28 mm.	
Measurement	Velocity, Acceleration. * RMS value.	
Function	Acceleration	m/s <sup>2</sup> , g, ft/s <sup>2</sup>
	Velocity	mm/s, cm/s, inch/s
Frequency range	10 Hz to 1 KHz * Sensitivity relative during the frequency range meet ISO 2954 Refer to table 1, page. 12.	
Circuit	Exclusive microcomputer circuit.	
Zero adjust	Build in the Zero adjustment VR, easy to make adjustment.	
Sampling time	Approx. 1 second.	
Operating temperature	0 to 50 °C ( 32 to 122 °F ).	
Operating humidity	Less than 80% RH.	
Power supply	DC 1.5V battery ( UM-4/AAA ) x 4 PCs.	
Power consumption	Approx. DC 12 mA.	
Weight	240 g ( 0.53 lb ).	
Dimension	Meter : 175 x 40 x 32 mm ( 6.9 x 1.6 x 1.3 inch ). * Meter without sensing head, Sensing head : Round 9 mm Dia. x 30 mm.	
Accessories included	Instruction manual..... 1 PC. Meter with sensing head..... 1 Set Magnetic base..... 1 PC. Soft carrying case, CA-52A..... 1 PC.	

**ELECTRICAL SPECIFICATIONS**

<b>Acceleration ( RMS )</b>	
Unit	
Range	0.5 to 199.9 m/s <sup>2</sup>
Resolution	0.1 m/s <sup>2</sup>
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 m/s <sup>2</sup> ( 160 Hz )

Unit	g @ 1 g = 9.8 m/s <sup>2</sup>
Range	0.05 to 20.39 g
Resolution	0.01 g
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 m/s <sup>2</sup> ( 160 Hz )

Unit	ft/s <sup>2</sup>
Range	2 to 656 ft/s <sup>2</sup>
Resolution	1 ft/s <sup>2</sup>
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 m/s <sup>2</sup> ( 160 Hz )

<b>Velocity ( RMS )</b>	
Unit	mm/s
Range	0.5 to 199.9 mm/s
Resolution	0.1 mm/s
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 mm/s ( 160 Hz )

Unit	cm/s
Range	0.05 to 19.99 cm/s
Resolution	0.01 cm/s
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 mm/s ( 160 Hz )

Unit	inch/s
Range	0.02 to 7.87 inch/s
Resolution	0.01 inch/s
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 mm/s ( 160 Hz )

\* Appearance and specifications listed in this brochure are subject to change without notice.

0809-PVB820

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