

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

# VIBRATION METER

**Model : PVB-820**

*ISO-9001, CE, IEC1010*



Soft carrying case, CA-52A  
( Optional )



Magnetic base



**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. * <i>RMS value.</i>	
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 * <i>Sensitivity relative during the the frequency range meet ISO 2954 Refer to table 1, page. 12.</i>	
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 ).	
	* <i>Meter without sensing head,</i> 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**

**Acceleration ( RMS )**

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	50m/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 )

**Velocity ( RMS )**

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.