

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

# VIBRATION METER

**Model : PVB-820**

**ISO-9001, CE, IEC1010**



Soft carrying case, CA-52A  
( included )



Magnetic base  
( included )

SOLICITAR ORÇAMENTO

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**Acceleration, Velocity**  
**RMS measurement, Metric & Imperial unit**  
**PEN VIBRATION METER**

**Model : PVB-820**

**FEATURES**

|  |
|--|
| * Applications for industrial vibration monitoring :<br>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.<br>* <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<br>* <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<br>( 6.9 x 1.6 x 1.3 inch ).  |   |
|                       | * <i>Meter without sensing head,</i><br>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<br>@ 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<br>@ 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<br>@ 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<br>@ 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<br>@ 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<br>@ 160 Hz, 80 Hz, 23 ± 5 °C |
| Calibration Point | 50 mm/s ( 160 Hz )                                    |