

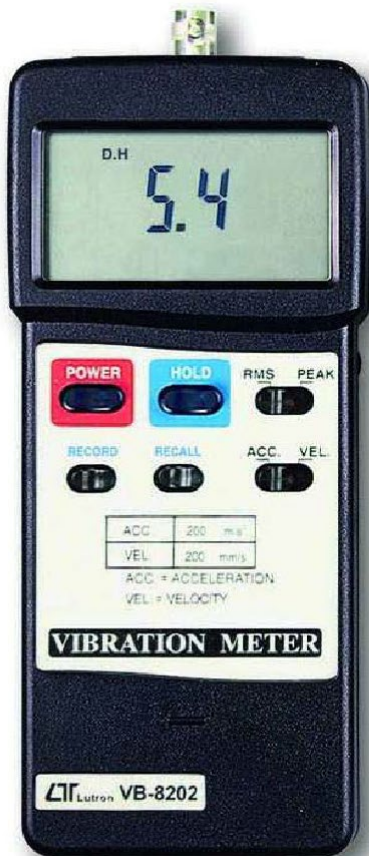
# VIBRATION METER

Model : VB-8202

ISO-9001, CE, IEC1010

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02-2389-0101



## 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.
- \* Separate vibration probe.
- \* Frequency range 10 Hz - 1 kHz, sensitivity relative meet ISO 2954.
- \* Professional vibration meter supply with vibration sensor, full set.
- \* Velocity measuring range 200 mm/s.
- \* Acceleration range 200 m/2 .
- \* RMS & Peak measurement.
- \* Data hold.
- \* Memory function to record max. and min. reading with recall.
- \* Complete set with hard carrying case.



**Lutron**

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*The Art of Measurement*

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## FEATURES

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| * 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. |
| * Professional vibration meter supply with vibration sensor & magnetic base, full set.   |
| * Velocity measuring range 200 mm/s.   |
| * Acceleration measuring range 200 m/s <sup>2</sup> .  |
| * Frequency range 10 Hz - 1 kHz, sensitivity relative meet ISO 2954.   |
| * RMS & Peak measurement.  |
| * Wide frequency range.  |
| * Data hold button to freeze the desired reading.  |
| * Memory function to record maximum and minimum reading with recall.   |
| * Separate vibration probe, easy operation   |
| * RS 232 computer interface.   |
| * Optional data acquisition software for data record & datalogger.   |
| * Super large LCD display.   |
| * Microcomputer circuit, high performance.   |
| * Auto shut off saves battery life.  |
| * Built-in low battery indicator.  |
| * Heavy duty & compact housing case.   |
| * Complete set with the hard carrying case.  |

## SPECIFICATIONS

|                 |  |
|-----------------|--|
| Display         | 61 mm x 34 mm supper large LCD display.<br>15 mm ( 0.6" ) digit size.  |
| Measurement     | Velocity, Acceleration RMS value, Peak value, Data hold, Max. & Min. value.  |
| Range           | Velocity :<br>200 mm/s : 0.5 to 199.9 mm/s<br><br>Acceleration :<br>200 m/s <sup>2</sup> : 0.5 to 199.9 m/s <sup>2</sup> |
| Frequency range | 10 Hz to 1 KHz<br>* Sensitivity relative during the the frequency range meet ISO 2954.                                   |
| Circuit         | Exclusive microcomputer circuit.   |

|                       |   |               |
|-----------------------|---|---------------|
| Accuracy              | ± ( 5 % + 2 d ) reading , 160 Hz, 80 Hz.<br>* 23± 5 °C  |               |
| Calibration point     | Velocity : 50 mm/s ( 160 Hz )<br>Acceleration : 50 m/s <sup>2</sup> ( 160 Hz )  |               |
| Data hold             | Freeze the desired reading.   |               |
| Peak measurement      | To measure the peak value.  |               |
| Memory                | Maximum & Minimum value.  |               |
| Power off             | Auto shut off, saves battery life, or manual off by push button.  |               |
| Sampling time         | Approx. 1 second.   |               |
| Data output           | RS 232 serial output, isolate.  |               |
| Operating temperature | 0 to 50 °C ( 32 to 122 °F ).  |               |
| Operating humidity    | Less than 80% RH.   |               |
| Power supply          | Alkaline or heavy duty type, DC 9V battery, 006P, MN1604 (PP3) or equivalent.   |               |
| Power consumption     | Approx. DC 6 mA.  |               |
| Weight                | Meter   | 230 g/0.50 LB |
|                       | Probe with sensing head   | 165 g/0.36 LB |
| Dimension             | Meter :<br>180 x 72 x 32 mm<br>( 7.1 x 2.8 x 1.3 inch ).  |               |
|                       | Vibration probe :<br>Round 36 mm Dia. x 71 mm.  |               |
|                       | Sensing head :<br>8.9 mm Dia x 42 mm length   |               |
|                       | Cable length :<br>1.2 meter.  |               |
| Accessories included  | Instruction manual..... 1 PC.<br>Cable with plugs..... 1 PC.<br>Vibration probe..... 1 PC.<br>Sensing head..... 1 PC.<br>Magnetic base..... 1 PC.<br>Carrying Case ( CA-05 )..... 1 PC. |               |
| Optional accessories  | * Software ( Windows version, data record & data acquisition )<br>..... SW-U801-WIN<br>* RS232 cable..... UPCB-01<br>* USB cable..... USB-01  |               |

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

VB8202+1105

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