

VIBRATION METER

Model : VB-8212

ISO-9001, CE, IEC1010



FEATURES

- * Applications for industrial vibration monitoring.
- * Frequency range 10 Hz - 1 kHz, sensitivity relative meet ISO 2954.
- * Supply with vibration sensor & magnetic base, sensor head, full set.
- * Metric & Imperial display unit
- * Velocity measuring range :
200 mm/s, 7.87 inch/sec.
- * Acceleration measuring range :
200 m/s², 656 ft/s².
- * RMS & Peak measurement.
- * Wide frequency range.
- * Data hold.
- * Memory function to record max. and min. reading.
- * Separate vibration probe.
- * RS 232 computer interface.
- * Microcomputer circuit.
- * Hard carrying case included.



Lutron

LUTRON ELECTRONIC

The Art of Measurement

VIBRATION METER

Model : VB-8212

1. FEATURES

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| * Applications for industrial vibration monitoring : <i>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.</i> |
| * Professional vibration meter supply with vibration sensor & magnetic base, full set. |
| * Velocity measuring range 200 mm/s, 7.87 inch/s. |
| * Acceleration measuring range 200 m/s^2 ,656 ft/s^2 |
| * Metric & Imperial display unit. |
| * 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. |

2. SPECIFICATIONS

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| Display | 61 mm x 34 mm supper large LCD display. 15 mm (0.6") digit size. |
| Measurement | Velocity, Acceleration RMS value, Peak value, Data hold, Max. & Min. value. |
| Range | Velocity : 200 mm/ : 0.5 to 199.9 mm/s 7.87 inch/s : 0.02 to 7.87 inch/s Acceleration : 200 m/s^2 : 0.5 to 199.9 m/s^2 656 ft/s^2 : 2 to 656 ft/s^2 |
| Resolution | Velocity : 0.1 mm/s ,0.01 inch/s Acceleration : 0.1 m/s^2 ,1 ft/s^2 |
| Frequency range | 10 Hz to 1 KHz * Sensitivity relative during the the frequency range meet ISO 2954 |

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| Accuracy | (5 % + 2 d) reading , 160 Hz, 80 Hz. @ 160 Hz, 80 Hz Cal. @ 23 ± 5 °C | |
| Calibration point | Velocity : 50 mm/s (160 Hz) Acceleration : 50 m/s^2 (160 Hz) | |
| Circuit | Exclusive microcomputer circuit. | |
| 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 | <i>Meter</i> | 230 g/0.50 LB |
| | <i>Probe with sensing head</i> | 165 g/0.36 LB |
| Dimension | <i>Meter :</i> 180 x 72 x 32 mm (7.1 x 2.8 x1.3 inch). <i>Vibration probe :</i> Round 36 mm Dia. x 71 mm. <i>Sensing head :</i> 8.9 mm Dia x 42 mm length <i>Cable length :</i> 1.2 meter. | |
| Accessories included | Instruction manual..... 1 PC. Cable with plugs..... 1 PC. Vibration probe..... 1 PC. Sensing head..... 1 PC. Magnetic base..... 1 PC. Carrying Case..... 1 PC. | |
| Optional accessories | * Software (Windows version, data record & data acquisition) SW-U801-WIN * RS232 cable..... UPCB-01 * USB cable..... USB-01 | |

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

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