

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 ELECTRONIC

The Art of Measurement

VIBRATION METER

Model : VB-8212

1. FEATURES

* 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

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

Accuracy	(5 % + 2 d) reading , 160 Hz, 80 Hz. @ 160 Hz, 80 Hz Cal. @ 23 $\pm$ 5 $^{\circ}$ 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 $^{\circ}$ C (32 to 122 $^{\circ}$ 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 x 1.3 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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