

# VIBRATION METER

Model : VB-8212

*ISO-9001, CE, IEC1010*



**LUTRON ELECTRONIC**

*The Art of Measurement*

# VIBRATION METER

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## 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 &amp; 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 $\text{m/s}^2$ , 656 $\text{ft/s}^2$
* 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 $\text{m/s}^2$ : 0.5 to 199.9 $\text{m/s}^2$ 656 $\text{ft/s}^2$ : 2 to 656 $\text{ft/s}^2$
Resolution	Velocity : 0.1 mm/s , 0.01 inch/s
	Acceleration : 0.1 $\text{m/s}^2$ , 1 $\text{ft/s}^2$
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 $^{\circ}\text{C}$	
Calibration point	Velocity : 50 mm/s ( 160 Hz ) Acceleration : 50 $\text{m/s}^2$ ( 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 $^{\circ}\text{C}$ ( 32 to 122 $^{\circ}\text{F}$ ).	
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 : 180 x 72 x 32 mm ( 7.1 x 2.8 x 1.3 inch ).	
	Vibration probe : Round 36 mm Dia. x 71 mm.	
	Sensing head : 8.9 mm Dia x 42 mm length	
	Cable length : 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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