

VIBRATION METER

Model : VB-8210

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 & looseness of the structure will cause the vibration level increase, it is a sure sign that the maintenance is needed.</i>
* Frequency range 10 Hz - 1 kHz, sensitivity relative meet ISO 2954.
* Professional vibration meter supply with vibration sensor & magnetic base, full set.
* Metric & Imperial display unit
* Velocity measuring range 200 mm/s, 7.87 inch/sec.
* Acceleration measuring range 200 m/s^2 , 656 ft/s^2 .
* 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 super large LCD display. 15 mm (0.6") digit size.
Measurement	Velocity, Acceleration RMS value, Peak value, Data hold, Max. & Min. value.
Range	<i>Velocity :</i> 200 mm/s : 0.5 to 199.9 mm/s 7.87 inch/s : 0.02 to 7.87 inch/s <i>Acceleration :</i> 200 m/s^2 : 0.5 to 199.9 m/s^2 656 ft/s^2 : 2 to 656 ft/s^2
Resolution	<i>Velocity :</i> 0.1 mm/s , 0.01 inch/s <i>Acceleration :</i> 0.1 m/s^2 , 1 ft/s^2

Frequency range	10 Hz to 1 KHz * Sensitivity relative during the frequency range meet ISO 2954	
Accuracy	$\pm (5 \% + 2 \text{ d })$ reading , 160 Hz, 80 Hz. @ 23 \pm 5 $^{\circ}\text{C}$	
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. * Peak value = 1.414 RMS 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 magnetic base	38 g/0.09 LB
Dimension	<i>Meter :</i> 180 x 72 x 32 mm (7.1 x 2.8 x 1.3 inch). <i>Vibration sensor probe:</i> Round 19 mm Dia. x 21 mm.	
Accessories included	Instruction manual..... 1 PC. Vibration sensor..... 1 PC. Cable..... 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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