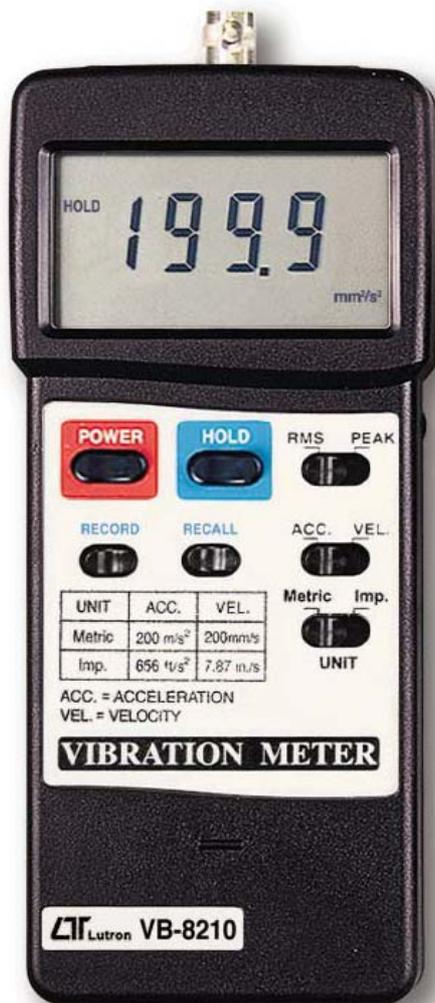# VIBRATION METER

Model : VB-8210 *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, 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.
* 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-8210

1. 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.

* Frequency range 10 Hz - 1 kHz, sensitivity relative meet ISO 2954.

* Professional vibration meter supply with vibration sensor & magnetic base, full set.

* Metric & Imperial dsiplay 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 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 relativive during the the frequency range meet ISO 2954*
Accuracy	± (5 % + 2 d) reading , 160 Hz, 80 Hz. @ 23 ± 5 ℃
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 ℃ (32 to 122 ℉).
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	*Meter :* 180 x 72 x 32 mm (7.1 x 2.8 x1.3 inch). *Vibration sensor probe:* 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