



## INGENIERIA ELECTRONICA APLICADA A LAS VIBRACIONES

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### VB-8210

Aceleración y Velocidad-Sistemas Métrico e Inglés



#### 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 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	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 <i>* Sensitivity relative during the frequency range meet ISO 2954</i>
Accuracy	$\pm ( 5 \% + 2 d )$ reading , 160 Hz, 80 Hz. <i>@ 23 <math>\pm</math> 5 <math>^{\circ}</math>C</i>
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. <i>* Peak value = 1.414 RMS value.</i>
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	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 x 1.3 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