

پتروفهان گستر جنوب

Tehran, Tehransar

Acceleration, Velocity, Displacement, RS232, Data logger



## VIBRATION METER

Model : VB-8203

ISO-9001, CE, IEC1010



### Features :

- \* Measurement :  
Acceleration :  $200 \text{ m/s}^2$ .  
Velocity :  $200 \text{ mm/s}$ .  
Displacement :  $2.0 \text{ mm}$ .
- \* Max. hold, peak value, data hold.
- \* Memory ( Max., Min. )
- \* LCD display with bar graph.
- \* RS232 computer interface.
- \* Accelerator and hard carrying case are included.
- \* RS-232 computer interface
- \* Data logger.
- \* Size :  $200 \times 68 \times 30 \text{ mm}$ .
- \* RS-232 computer interface

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*The Art of Measurement*

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Acceleration/Velocity/Displacement  
RMS/Peak/Max. Hold, Metric & Imperial unit

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# VIBRATION METER

Model : VB-8203

## 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
- \* Acceleration, Velocity, Displacement measurement.
- \* RMS, Peak value, Max. hold 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 with magnetic base, easy operation.
- \* RS 232 computer interface.
- \* Data Logger.
- \* Optional data acquisition software.
- \* Optional data logger ( data collection ) software.
- \* Super large LCD display with bar graph indicator.
- \* 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.

## 2-1 General Specifications

Display	52 mm x 38 mm, LCD display. 16 mm ( 0.63" ) digit size. With bar graph indicator.	
Measurement	Velocity, Acceleration, Displacement	
Function	<i>Main</i>	RMS, Peak, Max. Hold.
	<i>Others</i>	Data hold, Max. & Min. value, Data logger.
Frequency range	10 Hz to 1 KHz <i>* Sensitivity relative during the the frequency range meet ISO 2954 Refer to table 1, page 19.</i>	
Circuit	Exclusive microcomputer circuit.	
Data hold	Freeze the desired reading.	
Peak measurement	To measure the peak value.	
Max. hold measurement	To measure and update the max. 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.	
Sampling Time of Data Logger	0, 1, 2, 10, 30, 60, 600, 1800, 3600 sec. <i>* 0 second : Manual data logger. * Other sampling time beyond 0 second : Auto data logger.</i>	
Data Logger No.	500 no. max.	
Data output	RS 232 serial output, isolate.	
Operating temperature	0 to 50 °C ( 32 to 122 °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 13 mA.	
Weight	Meter	253 g/0.55 LB
	Probe with cable and magnetic base	99 g/0,22 LB
Dimension	Meter : 200 x 68 x 30 mm ( 7.9 x 2.7x 1.2 inch ) Vibration sensor probe: Round 16 mm Dia. x 37 mm. Cable length : 2 meter.	

Accessories included	Instruction manual..... 1 PC. Vibration sensor with cable..... 1 PC. Magnetic base..... 1 PC. Carrying Case..... 1 PC.
Optional accessories	* RS232 cable, UPCB-02 * Data Acquisition software, SW-801-WIN * Data Logger ( data collection ) software, DL-2005.

## 2-2 Electrical Specifications

<b>Acceleration ( RMS, Peak, Max Hold )</b>	
Unit	m/s <sup>2</sup>
Range	0.5 to 199.9 m/s <sup>2</sup>
Resolution	0.1 m/s <sup>2</sup>
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 m/s <sup>2</sup> ( 160 Hz )

Unit	G @ 1 G = 9.8 m/s <sup>2</sup>
Range	0.05 to 20.39 G
Resolution	0.01 G
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 m/s <sup>2</sup> ( 160 Hz )

Unit	ft/s <sup>2</sup>
Range	2 to 656
Resolution	1 ft/s <sup>2</sup>
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 m/s <sup>2</sup> ( 160 Hz )

## Velocity ( RMS, Peak, Max Hold )

Unit	mm/s
Range	0.5 to 199.9 mm/s
Resolution	0.1 mm/s
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 mm/s ( 160 Hz )

Unit	cm/s
Range	0.05 to 19.99 cm/s
Resolution	0.01 cm/s
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 mm/s ( 160 Hz )

Unit	inch/s
Range	0.02 to 7.87 inch/s
Resolution	0.01 inch/s
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 mm/s ( 160 Hz )

## Displacement p-p ( RMS, Max Hold )

Unit	mm
Range	1.999 mm
Resolution	0.001 mm
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	0.141 mm ( 160 Hz )

Unit	inch
Range	0.078 inch
Resolution	0.001 inch
Accuracy	± ( 5 % + 2 d ) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	0.141 mm ( 160 Hz )

\* Remark :  
p-p = Peak to Peak

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