Acceleration, Velocity, Displacement, RS232, Data logger

VIBRATION METER

Model: VB-8203 *ISO-9001, CE, IEC1010*



Features:

* Measurement:

Acceleration: 200 m/s^2.

Velocity: 200 mm/s.

Displacement: 2.0 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 x 68 x 30 mm.
- * RS-232 computer interface





The Art of Measurement

VIBRATION METER

Model: VB-8203

1. FEATURES

1. I EXTIGIZED
* 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.

ations
ć

2-1 General Spe		mm ICD display		
Display		mm, LCD display.		
		63") digit size.		
		aph indicator.		
Measurement	Velocity, Acc	celeration, Displacement		
Function		MS, Peak, Max. Hold.		
		ata hold, Max. & Min. value,		
		ata logger.		
Frequency	10 Hz to 1 k			
range	* Sensitivity relative during the			
	the frequency range meet ISO 2954			
	Refer to t	table 1, page 19.		
Circuit		icrocomputer circuit.		
Data hold		desired reading.		
Peak	To measure	the peak value.		
measurement				
Max. hold	To measure	and update the max. peak		
measurement	value.			
Memory	Maximum &	Minimum value.		
Power off	Auto shut of	Auto shut off, saves battery life,		
	or manual o	off by push button.		
Sampling time	Approx. 1 se	econd.		
Sampling Time	0, 1, 2, 10,	30, 60, 600, 1800, 3600 sec.		
of Data Logger	* 0 second : Manual data logger.			
	* Other sampling time beyond 0			
	second :	second : Auto data logger.		
Data Logger No.	500 no. max	Х.		
Data output	RS 232 seria	al output, isolate.		
Operating		32 to 122 °F).		
temperature	0 10 00 0 (02 10 122 1).		
Operating	Less than 80	0% RH		
humidity	2000 111411 01	0.70		
Power supply	Alkaline or h	neavy duty type,		
. one. supp.y	DC 9V battery, 006P,			
	MN1604 (PP3) or equivalent.			
Power	Approx. DC			
consumption	, pp. 5 D0			
Weight	Meter	253 g/0.55 LB		
	Probe with	99 g/0,22 LB		
	cable and	, g, 0,22 LD		
	magnetic ba	ase		
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.		
		9111 . 2 1110101.		

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

2-2 Electrical Specifications		
Acceleration (RMS, Peak, Max Hold)		
Unit	m/s^2	
Range	0.5 to 199.9 m/s^2	
Resolution	0.1 m/s^2	
Accuracy	± (5 % + 2 d) reading	
_	@ 160 Hz, 80 Hz, 23 ± 5 ℃	
Calibration	50 m/s^2 (160 Hz)	
Point		

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

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

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 ℃	
Calibration	50 mm/s (160 Hz)	
Point		

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 ℃
Calibration	50 mm/s (160 Hz)
Point	

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 ℃
Calibration	50 mm/s (160 Hz)
Point	

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 ℃	
Calibration	0.141 mm (160 Hz)	
Point		

Unit	inch
Range	0.078 inch
Resolution	0.001 inch
Accuracy	± (5 % + 2 d) reading
-	@ 160 Hz, 80 Hz, 23 ± 5 ℃
Calibration	0.141 mm (160 Hz)
Point	
* Remark :	
p-p = Peak to	o Peak

^{*} Appearance and specifications listed in this brochure are subject to change without notice.