### *SD Card, real time data logger Analog output, Acceleration, Velocity, Displacement*

**VIBRATION METER** 

#### Model : VB-8216SD

*ISO-9001, CE, IEC1010* 





The Art of Measurement

# *SD Card real time data logger, Analog output Acceleration, Velocity, Displacement*

# **VIBRATION METER**

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<ul> <li>Microcomputer</li> <li>Power by UM3//</li> </ul>	AA (1.5 V)	x 6 batteri	es or DC 9	V adapter.	Calibration Point	50 m/S
* RS232/USB PC (	COMPUTER	interface.			Unit	G
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Frequency range  Circuit  Peak Measurement  Max. Hold Measurement  Zero Button  Max. Hold Reset Button  Max. Hold Reset Button  Datalogger Sampling Time Setting range  Memory Card Advanced setting  Data Hold Memory Recall Sampling Time of Display Data Output  Operating Temperature Operating Temperature Operating Temperature Operating	Accelerati Velocity Displacen 10 Hz to <i>Sensiti</i> . <i>Exclusive</i> <i>Accelerat</i> <i>To me</i> <i>yalue</i> . <i>Displacen</i> <i>To me</i> <i>yalue</i> . <i>Set set</i> <i>set set</i> <i>Set son</i> <i>Set bee Set sam <i>s Son mem</i> <i>Freeze tt</i> <i>Maximun</i> <i>Approx</i>. <i>Conneu</i>. <i>UCCH</i>. <i>Conneu</i>. <i>UCCH</i>.</i>	ion         me           ion         mm           ion         mm           nent         mm           invity relative         mm           invity relative         ion           ion         table           inversion         table           ion         table	tric tric tric vis, cm/s vis, cm/s vis, cm/s vis, cm/s vis, cm/s e during th page	Imperial Introperial inch/s inch/s inch/s inch/s iso/2954 it. peak peak to max. peak max. peak to max. peak max. peak to max. peak max. peak to max. peak max. peak to max. peak to to so second, py loss button ne time. e, e, fface. able fug.	Calibration Point Remark : RMS : To mea Max. Hold : To Peak : To mea Max. Hold : To Peak : To mea Max. Hold : To Peak : To meas Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Nax. Hold , Calibration Point	50 m/S issure the tru issure the tru issure and the tru issure the the the the tru issure the the the tru issure the the the the tru issure the the the the the the the the the th

Power Supply	*.Alkaline or heavy duty DC 1.5 V battery		
	(UM3, AA) x 6 PCs, or equivalent.		
	*.DC 9V adapter input. ( AC/DC power		
	adapter is optional ).		
Power Current	Normal operation ( w/o SD card save		
	data and LCD Backlight is OFF) :		
	Approx. DC 15 mA.		
	When SD card save the data and LCD		
	Backlight is OFF) :		
	Approx. DC 36 mA.		
Weight	Meter :		
	515 g/ 1.13 LB.		
	Probe with cable and magnetic base :		
	99 g/0,22 LB		
Dimension	Meter :		
	203 x 76 x 38 mm		
	Vibration sensor probe:		
	Round 16 mm Dia. x 37 mm.		
	Cable length : 1.2 meter.		
Accessories	<ul> <li>* Instruction manual1 PC</li> </ul>		
Included	<ul> <li>* Hard carrying case, CA-061 PC</li> </ul>		
	<ul> <li>Vibration sensor with cable1 PC</li> </ul>		
	* Magnetic base1 PC		
Optional	SD Card (2 G)		
Accessories	AC to DC 9V adapter.		
	USB cable, USB-01.		
	RS232 cable, UPCB-02.		
	Data Acquisition software, SW-U801-WIN.		

Unit	m/s^2
Range	0.5 to 199.9 m/s^2
Resolution	0.1 m/s^2
Accuracy	± (5 % + 5 d) reading
	@ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration	50 m/S^2 (160 Hz)
Point	00 HI/O E (100 HE)
1 OIII	
Unit	G @ 1 G = 9.8 m/s^2
Range	0.05 to 20.39 G
Resolution	0.01 G
Accuracy	± (5% + 5 d) reading
	$@ 160 Hz, 80 Hz, 23 \pm 5 °C$
Calibration	50 m/S^2 ( 160 Hz )
Point	50 HI/3 2 ( 100 HZ )
Point	
Unit	ft/s^2
Range	2 to 656 ft/s^2
Resolution	1 ft/s^2
Accuracy	± (5 % + 5 d ) reading
	@ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 m/S^2 ( 160 Hz )
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Max. Hold : T	
Max. Hold : 7	o measure and update the max. peak value.
Max. Hold : T	o measure and update the max. peak value.
Max. Hold : 7 Velocity ( RMS Unit Range	io measure and update the max. peak value. 5, Peak, Max Hold ) mm/s 0.5 to 199.9 mm/s
Max. Hold : 7 Velocity ( RMS Unit Range Resolution	o measure and update the max. peak value. b, Peak, Max Hold ) mm/s 0.5 to 199.9 mm/s 0. 1 mm/s
Max. Hold : 7 Velocity ( RMS Unit Range Resolution	io measure and update the max. peak value. 5, Peak, Max Hold ) mm/s 0.5 to 199.9 mm/s 0.1 mm/s ↓ (5 % + 5 d ) reading
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy	io measure and update the max. peak value.           5, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           @ 160 Hz, 20 Hz, 23 ± 5 °C
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration	io measure and update the max. peak value. 5, Peak, Max Hold ) mm/s 0.5 to 199.9 mm/s 0.1 mm/s ↓ (5 % + 5 d ) reading
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration	io measure and update the max. peak value.           5, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           @ 160 Hz, 20 Hz, 23 ± 5 °C
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point	io measure and update the max. peak value.           5, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           @ 160 Hz, 20 Hz, 23 ± 5 °C
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit	io measure and update the max. peak value.           5, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           @ 160 Hz, 20 Hz, 23 ± 5 °C           50 mm/s (160 Hz)
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range	io measure and update the max. peak value.           5, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           @ 160 Hz, 80 Hz, 23 ± 5 ℃           50 mm/s (160 Hz)           cm/s           0.05 to 19.99 cm/s
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution	io measure and update the max. peak value.           5, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           Ø 160 Hz, 23 ± 5 ℃           50 mm/s (160 Hz )           cm/s           0.05 to 19.99 cm/s           0.05 to 19.99 cm/s           0.05 to 19.99 cm/s           0.01 cm/s
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution	io measure and update the max. peak value.           io measure and update the max. peak value.           is, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           @ 160 Hz, 20 Hz, 23 ± 5 °C           50 mm/s (160 Hz)           cm/s           0.05 to 19.99 cm/s           0.05 to 19.99 cm/s           0.01 cm/s           ± (5 % + 5 d) reading
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy	io measure and update the max. peak value. 5, Peak, Max Hold ) mm/s 0.5 to 199.9 mm/s ± (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 ℃ 50 mm/s (160 Hz) cm/s 0.05 to 19.99 cm/s 0.01 cm/s ± (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 ℃
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration	io measure and update the max. peak value.           io measure and update the max. peak value.           is, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           @ 160 Hz, 20 Hz, 23 ± 5 °C           50 mm/s (160 Hz)           cm/s           0.05 to 19.99 cm/s           0.05 to 19.99 cm/s           0.01 cm/s           ± (5 % + 5 d) reading
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration	io measure and update the max. peak value. 5, Peak, Max Hold ) mm/s 0.5 to 199.9 mm/s ± (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 ℃ 50 mm/s (160 Hz) cm/s 0.05 to 19.99 cm/s 0.01 cm/s ± (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 ℃
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point	io measure and update the max. peak value.           io measure and update the max. peak value.           is, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading @ 160 Hz, 20 Hz, 23 ± 5 °C           50 mm/s (160 Hz )           cm/s           0.05 to 19.99 cm/s           0.01 cm/s           ± (5 % + 5 d) reading           @ 160 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz )
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Calibration Resolution Accuracy Calibration Point Unit	in measure and update the max. peak value.           is peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           @ 160 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz)           cm/s           0.05 to 19.99 cm/s           0.01 cm/s           ± (5 % + 5 d) reading           @ 160 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz)
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range	io measure and update the max. peak value.           io measure and update the max. peak value.           is, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz)           cm/s           0.05 to 19.99 cm/s           0.01 cm/s           ± (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz)
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Hoint Range Resolution Range Resolution Range Resolution Range Resolution	io measure and update the max. peak value.           io measure and update the max. peak value.           is, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           if (5 % + 5 d) reading           # 15 % + 5 d) reading           # 160 Hz, 20 Hz, 23 ± 5 ℃           50 mm/s (160 Hz)           cm/s           0.05 to 19.99 cm/s           1.60 Hz, 20 Hz, 23 ± 5 ℃           50 mm/s (160 Hz)           inch/s           inch/s           0.01 inch/s
Max. Hold : 7 Velocity ( RMS Unit Range Resolution	io measure and update the max. peak value.           io measure and update the max. peak value.           is, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           @ 160 Hz, 20 Hz, 23 ± 5 °C           50 mm/s (160 Hz)           cm/s           0.05 to 19.99 cm/s           0.01 cm/s           ± (5 % + 5 d) reading           inch/s           0.02 to 7.87 inch/s           0.01 inch/s           ± (5 % + 5 d) reading
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy	io measure and update the max. peak value.           io measure and update the max. peak value.           is, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           # 160 Hz, 20 Hz, 23 ± 5 °C           50 mm/s (160 Hz )           cm/s           0.01 cm/s           ± (5 % + 5 d) reading           @ 760 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz )           inch/s           0.01 cm/s           ± (5 % + 5 d) reading           @ 760 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz )
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration	io measure and update the max. peak value.           io measure and update the max. peak value.           is, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           @ 160 Hz, 20 Hz, 23 ± 5 °C           50 mm/s (160 Hz)           cm/s           0.05 to 19.99 cm/s           0.01 cm/s           ± (5 % + 5 d) reading           inch/s           0.02 to 7.87 inch/s           0.01 inch/s           ± (5 % + 5 d) reading
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Calibration Calibratio	io measure and update the max. peak value.           io measure and update the max. peak value.           is, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading           # 160 Hz, 20 Hz, 23 ± 5 °C           50 mm/s (160 Hz )           cm/s           0.01 cm/s           ± (5 % + 5 d) reading           @ 760 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz )           inch/s           0.01 cm/s           ± (5 % + 5 d) reading           @ 760 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz )
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Calibration Range Resolution Accuracy Calibration Range Resolution Calibration Point Remark :	io measure and update the max. peak value.           io measure and update the max. peak value.           is, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz )           cm/s           c.0.05 to 19.99 cm/s           0.01 to 19.99 cm/s           0.05 to 19.99 cm/s           0.05 to 19.99 cm/s           0.05 to 19.99 cm/s           0.05 to 19.99 cm/s           0.01 cm/s           ± (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz)           inch/s           0.02 to 7.87 inch/s           0.01 inch/s           ± (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz )
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Calibration	io measure and update the max, peak value.         io measure and update the max, peak value.         is, Peak, Max Hold )         mm/s         0.5 to 199.9 mm/s         0.1 mm/s $\pm$ (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 °C         50 mm/s (160 Hz)         cm/s         0.05 to 19.99 cm/s         0.01 cm/s $\pm$ (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 °C         50 mm/s (160 Hz)         inch/s         0.02 to 7.87 inch/s         0.01 inch/s $\pm$ (5 % + 5 d) reading @ 160 Hz, 20 Hz, 23 ± 5 °C         50 mm/s (160 Hz)         inch/s         0.01 inch/s $\pm$ (5 % + 5 d) reading @ 160 Hz, 23 ± 5 °C         50 mm/s (160 Hz )         inch/s         inch/s         0.01 inch/s $\pm$ (5 % + 5 d) reading         @ 160 Hz, 20 Hz, 23 ± 5 °C         50 mm/s (160 Hz )
Max. Hold : 7 Velocity ( RMS Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Unit Range Resolution Accuracy Calibration Point Remark : RMS : To n Peak : To n Peak : To n	io measure and update the max. peak value.           io measure and update the max. peak value.           is, Peak, Max Hold )           mm/s           0.5 to 199.9 mm/s           0.1 mm/s           ± (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz )           cm/s           c.0.05 to 19.99 cm/s           0.01 to 19.99 cm/s           0.05 to 19.99 cm/s           0.05 to 19.99 cm/s           0.05 to 19.99 cm/s           0.05 to 19.99 cm/s           0.01 cm/s           ± (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz)           inch/s           0.02 to 7.87 inch/s           0.01 inch/s           ± (5 % + 5 d) reading @ 160 Hz, 80 Hz, 23 ± 5 °C           50 mm/s (160 Hz )

#### k Hold p-p )

Unit	mm	
Range	0.014 - 1.999 mm	
Resolution	0.001 mm	
Accuracy	± (5 % + 5 d) reading	
	@ 160 Hz, 80 Hz, 23 ± 5 °C	
Calibration	0.141 mm ( 160 Hz )	
Point		
Unit	inch	
Range	0.001 - 0.078 inch	
Resolution	0.001 inch	
Accuracy	± ( 5 % + 5 d ) reading	
	@ 160 Hz, 80 Hz, 23 ± 5 °C	
Calibration	0.141 mm ( 160 Hz )	
Point		
Remark :		
р-р_:		
	re the Peak to Peak value.	
Max. Hold p		
To measu	re and update the max. Peak to Peak value.	

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