# *SD card real time data recorder* **4 channels VIBRATION RECORDER**Model : BVB-8207SD *ISO-9001, CE, IEC1010*





The Art of Measurement

# 4 channels Vibration meter Patented SERIES





Optional vibration sensor, VB-83



### 4 channels VIBRATION RECORDER Model : BVB-8207SD

- \* 4 channels vibration recorder, use SD card to save the data along with time information, paperless.
- \* Real time data logger, save the measuring data along the time information (year, month, date, minute, second) into the SD memory card and can be down load to the Excel, extra software is no need.
- \* Show CH1 to CH4 vibration value in the same LCD.
- \* Time information : Year, Month, Date, Hour, Minute and Second.
- \* Sampling setting : 1 to 3600 seconds.
- \* Acceleration : 200 m/s<sup>2</sup>. Velocity : 200 mm/s. Displacement ( p-p ) : 2 mm.

- \* Max hold, peak value, data hold, Max./Min..
- \* RS232/USB computer interface, Patented.
- \* Memory card size : 1 GB to 16 GB.
- \* Supper large LCD with backlight, easy reading.
- \* Data hold, Record ( Max., Min. ).
- \* RS232/USB computer interface.
- \* Include 1PC sensor vibration, VB-83.
- \* Extra vibration sensor, VB-83 can be order. When change the VB-83, it is not necessary to make the calibration again.
- \* DC 1.5V (UM-3, AA) x 8 PCs or DC 9V adapter in.
- \* Patented.

# 4 channels VIBRATION METERS Model : BVB-8207SD

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Measurement Function Unit Frequency range Circuit Peak	4 channe CH1, CH Velocity, P-D (1) <i>Accelerat</i> <i>RMS</i> , I <i>Displace</i> <i>p</i> -P (1) <i>Measuret</i> <i>Accelerat</i> <i>Yelocity</i> <i>Displace</i> 10 Hz to <i>Velocity</i> <i>Displace</i> 10 Hz to <i>Sensil</i> <i>the fra</i> <i>Refer</i> <i>Refer</i> <i>Exclusive</i> <i>Accelerat</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>Displace</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>Sol mem</i> <i>set cloud</i> <i>Hour/M</i> <i>becima</i>	els : Accele tion, Vele Peak, N ment : accele tion, Vele eeak-pe ment ion ment 1 KHz ivity rev aguercz asure a ment : asure a asure a ment : asure a asure a asu	CH4. ration, Displa body and the second se	Id p-p. Imperial It/s^2, inch/s inch/s inch/s ISO 2954 Uit. e peak e peak to e max. peak e max. neasurement, gger Button nt, press > 5 seconds. econds econds er button or button or button or bitton or button or bitton or bitton
Measurement Function Unit Unit Frequency range Circuit Peak Measurement Max Hold Measurement Zero Button Max. Hold Reset Button Datalogger Sampling Time Settling range Data error no Memory Card Advanced	4 channe CH1, CH Velocity, Velocity, P-D (1) Measurer Accelerat Velocity Displace 10 Hz to Sensit the fra Refer Exclusive Accelerat To me value. Displace To me value. Displace Auto	els : 2, CH3, X Accele tion, Verener, X Peak, N ment ion ment ion ment 1 KHz ivity rere aquency to table a micror to table a micror to table a micror to table a micror to table a micror to table a micror to table a micror assure a ment : assure a ment : assure a assure a assure a ment : assure a assure a assure a ment : assure a a	CH4. ration, Displa toolly : tax Hold. tax Hold. t	Id p-p. Imperial It/s^2, inch/s inch/s inch/s ISO 2954 Uit. e peak e peak to e max. peak e max. neasurement, gger Button nt, press > 5 seconds. econds econds er button or button or button or bitton or button or bitton or bitton
Measurement Function Unit Unit Frequency range Circuit Peak Measurement Max Hold Measurement Zero Button Max. Hold Reset Button Datalogger Sampling Time Settling range Data error no Memory Card Advanced	4 channe CH1, CH Velocity, P-D (1) <i>Massurer</i> <i>Accelerat</i> <i>P-D</i> (1) <i>Measurer</i> <i>Accelerat</i> <i>Velocity</i> <i>Displacer</i> 10 Hz to <i>Velocity</i> <i>Displacer</i> 10 Hz to <i>Celerat</i> <i>To me</i> <i>value.</i> <i>Displacer</i> <i>To me</i> <i>value.</i> <i>So to set set set <i>set set set set <i>set set set set set <i>set set set set <i>set set set set <i>set set set set <i>set set set set <i>set set set set <i>set set set set set <i>set set set set set <i>set set set set <i>set set set set set <i>set set set set set <i>set set set set <i>set set set set set <i>set set set set <i>set set set set <i>set set</i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i>	els : els : 2, CH3, 2, Accele tion, Verence, Naccele tion, Verence, Naccele peak, Naccele ment ion ment nent 1 KHz ivity re- aguency assure a ment : assure a as	CH4. ration, Displa toolly : tax Hold. tax Hold	Id p-p. Imperial It/s^2, inch/s inch/s inch/s ISO 2954 Uit. e peak e peak to e max. peak e max. neasurement, gger Button nt, press > 5 seconds. econds econds er button or button or button or bitton or button or bitton or bitton
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Measurement Function Unit Unit Frequency range Circuit Peak Measurement Max Hold Measurement Zero Button Max. Hold Reset Button Datalogger Sampling Time Settling range Data error no. Memory Card Advanced setting Data Hold	4 channe CH1, CH Velocity, P-D (1) <i>Displace</i> p-P (1) <i>Measurer</i> <i>Accelerat</i> <i>Yelocity</i> Displacer 10 Hz to <i>Sensit</i> <i>the fr</i> <i>Refer</i> Exclusive <i>Accelerat</i> <i>To me</i> value. <i>Displace</i> <i>To me</i> <i>set sto an</i> <i>SD mem</i> <i>S SD mem</i> <i>S Sto telo</i> <i>Hour/M</i> <i>S Sto set be</i> <i>S Sto set be</i>	els : 2, CH3, 2, Accele tion, Verener, 2, Accele tion, Verener, 2, Accele ment ion ment ion ment 1 KHz ivity re- aguency ausure a ment : 1 KHz ivity re- aguency ausure a ment : ausure a ausure a ment : ausure a ausure a au	CH4. ration, Displa toolly : lax Hold. tak Hold. t	Id p-p. Imperial It/s 2, inch/ inch/ ISO 2954 uit. e peak e peak to e max. peak e max. peak e max. peak e max. neasurement, gger Button nt, press > 5 seconds. econds er to so select the cation J no. tata typically. GB. ate, Ig
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Measurement Function Unit Unit Frequency range Circuit Peak Measurement Max Hold Measurement Zero Button Datalogger Sampling Time Setting range Data error no. Memory Card Advanced setting	4 channe CH1, CH Velocity, P-D (1) <i>Measurer</i> <i>Accelerat</i> <i>RMS</i> , I <i>Displace</i> <i>p</i> -P (1) <i>Measurer</i> <i>Accelerat</i> <i>Celerat</i> <i>Celerat</i> <i>Celerat</i> <i>Celerat</i> <i>Celerat</i> <i>Celerat</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>Compatibility</i> <i>Accelerat</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>Compatibility</i> <i>Accelerat</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>Compatibility</i> <i>Accelerat</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>Compatibility</i> <i>Accelerat</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>Compatibility</i> <i>Accelerat</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>Accelerat</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>Compatibility</i> <i>Accelerat</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>Compatibility</i> <i>Accelerat</i> <i>To me</i> <i>value</i> . <i>Displace</i> <i>Compatibility</i> <i>Accelerat</i> <i>Compatibility</i> <i>Compatibility</i> <i>Compatibility</i> <i>Compatibility</i> <i>Compatibility</i> <i>Compatibility</i> <i>Compatibility</i> <i>Compatibility</i> <i>Compatibility</i>	els : 2, CH3, Accele tion, Veleneed, Naccele tion, Veleneed, Naccele tion, Veleneed, Naccele ment ment ion ment 1 KHz ivity rev aguerci aguerci assure a ment : assure a (p-p) V assure a ment : assure a (p-p) V (p-assure a ment : assure a (p-p) V (p-assure a ment : (p-b) V (p-b) V (p-assure a ment : (p-b) V (p-b) V (	CH4. ration, Displa toolly : lax Hold. tak Hold. t	Id p-p. Imperial It/s ^2, inch inch ISO 2954 uit. e peak e peak to e max. peak e max. peak for a seconds e to a seconds e to a second for a second, hay loss er button one time. he to also select the last select the cation. ction. ction.
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Measurement Function Unit Unit Frequency range Circuit Peak Measurement Max Hold Measurement Max. Hold Reset Button Max. Hold Reset Button Datalegger Sampling Time Settling range Data error no. Memory Card Advanced setting Data Hold Memory Recall	4 channe CH1, CH Velocity, P-D (1) <i>Displace</i> p-P (1) <i>Measurer</i> <i>Accelerat</i> <i>Yelocity</i> Displacer 10 Hz to <i>X</i> <i>Sensit</i> <i>the fr</i> <i>Refer</i> Exclusive <i>Accelerat</i> <i>To me</i> <i>value</i> . <i>Displace</i> To me <i>value</i> . <i>Displace</i> <i>To me</i> <i>value</i> . <i>Come</i> <i>UPCB</i> <i>Come</i> <i>UPCB</i>	els : 2, CH3, 2, Accele tion, Verener, Accele tion, Verener, Accele peak, N. Accele peak, N. Accele ment ion ment 1 KHz ivity reveak-peak acceleration, Verener, Acceleration, Verener, Acceleratio	CH4. ration, Displa toolfy : fax Hold. ration, Max Hold. An Hold. An Hold. rative during Li range meet - range meet -	Id p-p. Imperial It/s^2, inch/s inch ISO 2954 uit. e peak e peak e peak to e max. peak e max. peak e max. peak e max. peak e max. peak e max. peak e max. neasurement, ggr Button nt, press > 5 seconds. econds set to 1 second, nay loss. er f button one time. ne to also select the cation. ection. ection. ection.

Sampling Time of Display	Approx. 1 second.		
Operating	0 to 50 °C.		
Temperature	Less than 85% R.H.		
and Humidity	2033 (101 03 /0 101)		
Power Supply	*.Alkaline or heavy duty DC 1.5 V battery		
i onoi ouppij	(UM3, AA) x 8 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 12 mA.		
	When SD card save the data and LCD		
	Backlight is OFF) :		
	Approx. DC 35 mA.		
Weight	Meter: 515 g/ 1.13 LB.		
0	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	* Instruction manual1 PC		
Included	<ul> <li>Vibration sensor set, VB-83 with</li> </ul>		
	cable1 PC		
	* Magnetic base1 PC		
Optional	* Vibration sensor set, VB-83 with cable		
Accessories	* SD Card ( 2 G )		
	* AC to DC 9V adapter.		
	* USB cable, USB-01.		
	* RS232 cable, UPCB-02.		
	* Data Acquisition software, SW-U801-WIN.		

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# ELECTRICAL SPECIFICATIONS ( $23\pm5$ °C)

# 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 °C	
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 °C	
Calibration	50 m/S^2 ( 160 Hz )	
Point		
Unit	ft/s^2	
Range	2 to 656 ft/s^2	
Resolution	1 ft/s^2	
Accuracy	± ( 5 % + 2 d ) reading	
	@ 160 Hz, 80 Hz, 23 ± 5 °C	
Calibration	50 m/S^2 ( 160 Hz )	
Point		
Remark :		
RMS : To mea	asure the true RMS value.	
Peak : To me	asure and update the peak value.	
Max. Hold : T	o measure and update the max. peak value.	

# 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	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 °C	
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 °C	
Calibration	50 mm/s ( 160 Hz )	
Point		
Remark :		
	easure the true RMS value.	
Peak : To me	easure and update the peak value.	
	To measure and update the max. peak value.	

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

Unit	mm	
Range	1.999 mm	
Resolution	0.001 mm	
Accuracy	± ( 5 % + 2 d ) reading	
-	@ 160 Hz, 80 Hz, 23 ± 5 °C	
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 °C	
Calibration	0.141 mm ( 160 Hz )	
Point		
Remark :		
р-р:		
To measur	re the Peak to Peak value.	
Max. Hold p	-p :	
To monsur	a and undate the max. Beak to Beak value	

Appearance and specifications listed in this brochure are subject to change without notice.