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





The Art of Measurement

4 channels VIBRATION METERS Model : BVB-8207SD

FEATURES		iei .	BVB-820	
* 4 channels vibr 4 channels' dat				
 Applications for 	industrial v	/ibratior	monitoring :	
All industrial ma a useful guide				
misalignment &	looseness	of the s	tructure will ca	
vibration level i maintenance is		is a sure	e sign that the	
* Channels no. :	4 channels	(CH1 to	o CH4)	
 vibration measurements Frequency rangements 		kHz, se	ensitivity relativ	/e meet
ISO 2954.				
 Professional vib & magnetic bas 		er suppr	y with vibratio	n sensor
* Metric & Imper * Acceleration V			nt measureme	nt
 * Acceleration, Version, V	Peak value	e measu	rement.	nı.
 Max. Hold reset * Wide frequency 		ro butto	n.	
 Data hold butto 	on to freeze			
 Memory function reading with re 		maxim	um and minim	um
 Separate vibrat 	ion probe w			
 Real time SD m and Calendar, r 				
from 1 second	to 3600 sec	onds.		
 Manual datalog time to 0), dur 				
function, it can (position 1 to)			osition (locatio	on) No.
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to setup extra s take away the s				
SD card into th	e computer	, it can (down load the	all the
4 channels mea year/month/dat				
directly, then u	ser can mal			
* SD card capacit	ty:1GB to			
 LCD with green Can default aut 	light backli	ight, eas		
 Data hold, reco 	rd max. and	d min. r	eading.	
 Microcomputer Power by UM3/ 				V adapter
* RS232/USB PC	COMPUTER	interfa	ce.	
 Include 1 PC vi Extra vibration 				
When change t	he VB-83, it			nake
calibration agai	n.			
GENERAL SPEC				
Circuit	circuit.	one-cni	p of micropro	cessor LSI
Display			m x 61 mm.	
	* with green color backlight.			
Channels	4 channe		lor backlight.	
	4 channe CH1, CH	els : 2, CH3,	CH4.	comont
	4 channe CH1, CH	els : 2, CH3,		cement
Measurement	4 channe CH1, CH Velocity, Accelerat	els : 2, CH3, Accele	CH4. ration, Displa	cement
Channels Measurement Function	4 channe CH1, CH Velocity, Accelerat RMS, I Displace	els : <u>2, CH3</u> , Accele tion, Ver Peak, N ment :	CH4. ration, Displa <i>locity :</i> lax Hold.	
Measurement Function	4 channe CH1, CH Velocity, Accelerat RMS, I Displace p-p ()	els : <u>2, CH3,</u> Accele <i>tion, Vei</i> Peak, N <i>ment :</i> peak-pe	CH4. ration, Displa <i>locity :</i> lax Hold. eak), Max Ho	ld p-p.
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Measurement Function	4 channe CH1, CH Velocity, Accelerat RMS, I Displace p-p (p <u>Measurer</u> Accelerat	els : <u>2</u> , CH3, Accele tion, Ver Peak, N ment : peak-pe ment ion	CH4. ration, Displa locity : lax Hold. eak), Max Ho <u>Metric</u> meter/s^2, g mm/s, cm/s	ld p-p. Imperial ft/s^2,
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Measurement Function Unit Unit Frequency range Circuit Peak Measurement Max Hold Measurement Zero Button Datalogger Sampling Time	4 channe CH1, CH Velocity, Displace p-p Ci Measurer Accelerat Velocity Displacer 10 Hz to <i>* Sensit</i> the from Refer To me value. Displacer To me Value (Displacer To me Value (Displacer Value (Dis	els : 2, CH3, X Accele tion, VetPeak, N ment : 0 nent : 1 KHz Wity rer equency: to table e micror to table e micror e assure a o peak science to table e micror e assure a o peak science f assure a o peak to table e micror e micror e assure a o peak to table e micror e micror	CH4. ration, Displa lax Hold. ration, Displa lax Hold. ration, Displa lax Hold. ration definition of the second lative during up range meeter p, page 28 computer circ computer circ computer circ computer circ ration (PMS) p, value ion (PMS) p, value ion (RMS) p, value	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. er to 1 second, may loss. er button one time.
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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	4 channe CH1, CH Velocity, P-D (1) <i>Displace</i> P-P (1) <i>Measurer</i> <i>Accelerat</i> <i>Velocity</i> Displacer 10 Hz to <i>Sensit</i> <i>the fr</i> <i>Refer</i> Exclusive <i>Accelerat</i> To me value. <i>Displace</i> <i>To me</i> value. <i>Displace</i> <i>To me</i> <i>Sister</i> <i>Come</i> <i>To me</i> <i>Sister</i> <i>Come</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sister</i> <i>Sis</i>	els : Accele tion, Verener, Accele tion, Verener, Accele Peak, N. Accele ment tion ment ant 1 KHz ivity re- aguency ausure a ment 1 KHz ivity re- aguency ausure a ment 2 ment 2 men	CH4. ration, Displa toolly : lax Hold. tak Hold. t	Id p-p. Imperial Itts v2, Inch/sv2, Inch
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
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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	 Vibration sensor set, VB-83 with 		
	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 ± 5 °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.