VIBRATION METER

Model: VB-8206SD *ISO-9001, CE, IEC1010*











The Art of Measurement

Acceleration, Velocity, Displacement SD Card real time data logger

VIBRATION METER

Model : VB-8206

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F	EATURES
*	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.
*	Max. Hold reset button, Zero Button.
*	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.
*	Real time SD memory card Datalogger, it Built-in Clock
	and Calendar, real time data recorder , sampling time set
	from 2 second to 3600 seconds.
*	Manual datalogger is available (set the sampling
	time to 0), during execute the manual datalogger
	function, it can set the different position (location) No.
	(position 1 to position 99).
*	innovation and easy operation, computer is not need
	to setup extra software, after execute datalogger, just
	take away the SD card from the meter and plug in the
	SD card into the computer, it can down load the all the
	measured value with the time information (
	year/month/date/ hour/minute/second) to the Excel
	directly, then user can make the further data or graphic
ı	analysis by themselves

directly, then user can make the further data or grapnic analysis by themselves. * SD card capacity: 1 GB to 16 GB. * LCD with green light backlight, easy reading. * Can default auto power off or manual power off. * Data hold, record max, and min. reading. * Microcomputer circuit, high accuracy. * Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter. * RS232/USB PC COMPUTER interface. GENERAL SPECIFICATIONS

GENERAL SPECI	FICATION	S		
Circuit			p of microprod	cessor LSI
Display				
			backlight (Of	
Measurement	velocity,	Velocity, Acceleration, Displacement		
Function	Accelerat			
			lax. Hold.	
	Displace		ak), Max-holo	d n-n
Unit	Measurei	ment	Metric	Imperial
	Accelerat		meter/s^2,G	ft/s^2,
	Velocity		mm/s, cm/s	inch/s
Fraguanas	Displacer		mm	inch
Frequency range	10 Hz to		ative during th	ino.
range			range meet i	
	Refer	to table	1, page .	
Circuit	Exclusive	e micro	computer circu	iit.
Peak	Accelerat			
Measurement		asure a	ind update the	e peak
	value. Displace	ment ·		
			ind update the	peak to
		p-p) \		pour to
Max. Hold	Accelerat			
Measurement		asure a	ind update the	max. peak
	value. Displacement:			
			and update the	may
			(p-p) value.	illax.
Zero Button			ion (RMS) m	easurement,
			ss , press Log	ger Button
	> 5 sec			
Max. Hold Reset Button			d measuremer	it, press
Datalogger	Auto		> 5 seconds. nd to 3600 se	ronds
Sampling Time	ruto		pling time can se	
Setting range			memory data m	
	Manual		he data logge	
			vill save data o	
			the sampling tim cond.	e to
			ual mode, can ai	so select the
			99 position (Lo	
Memory Card	SD mem		d. 1 GB to 16	
Advanced			Year/Month/Da	te,
setting	Hour/Minute/ Second)			
	* Decimal point of SD card setting * Auto power OFF management			
	* Set bee	n Sound	I ON/OFF	
	* Set sampling time			
	* SD mer	nory car	d Format	
Data Hold			ay reading.	
Memory Recall			nimum value.	
Sampling Time of Display	Approx.	i secor	ıa.	
Data Output	RS 232/I	JSB PC	computer inte	erface.
			otional RS232 (
	UPCB-02 will get the RS232 plug.			
			otional USB cal	
Oneratina		USB-01 will get the USB plug.		
Operating Temperature	0 to 50 °	Ų.		
Operating	Less tha	n 85%	R.H.	
Humidity				
Power Supply	*.Alkalin	e or he	avy duty DC 1	.5 V battery
	(UM3	, AA) >	6 PCs, or eq	uivalent.
	".DC 9V	adapte	er input. (AC/I	DC power
	ı adapte	er is ob	tional).	

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	* Instruction manual1 PC
Included	* Instruction manual1 PC
	* Vibration sensor with cable PC
	* Magnetic base 1 PC
Optional	
Accessories	SD Card (2 G)
	AC to DC 9V adapter.
	Data Acquisition software, SW-U801-WIN.

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 ℃	
Calibration	50 m/S^2 (160 Hz)	
Point		
Remark :		
RMS : To measure the true RMS value.		

Peak: To measure and update the peak value.

Max. Hold: To 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	
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 :	
DMS · To r	magaira tha trua PMS valua

RMS: 10 measure the true RMS value. Peak: To measure and update the peak value. Max. Hold: 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 ℃	
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 :	

ρ-ρ : To measure the Peak to Peak value. Max. Hold p-p : To measure and update the max. Peak to Peak value.

TAIWAN: M 358970 M 359043 U.S.A.: Pending

adapter is optional).

PATENT

PATENT CHINA: ZL 2008 2 0189918.5 ZL 2008 2 0189917.0

| Germany: Nr. 20 2008 016 337.4 JAPAN: 3151214

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