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

FI	EATURES		
*	Applications for industrial vibration monitori	ing	:

ı	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
L	from 1 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
ı	directly, then user can make the further data or graphic

	directly, then user can make the further data or graphic
	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.
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GENERAL SPECIFICATIONS

GENERAL SPECIFI	CATION	S			
Circuit	Custom of circuit.	one-chi	p of microproce	ssor LSI	
Display	LCD size		m x 38 mm backlight (ON/	OEE)	
Measurement			ration, Displacer		
Function	Accelerati	ion. Vel	ncity :		
	RMS, F	Peak, M	lax. Hold.		
	Displacei				
Unit			ak), Max-hold j Metric	o-p. Imperial	
Offic	Measuren Accelerati		meter/s^2,G	ft/s^2,	
	Velocity		mm/s, cm/s	inch/s	
	Displacem		mm	inch	
Frequency	10 Hz to				
range			ative during the		
			range meet IS 1, page .	U 2934	
Circuit			computer circuit		
Peak	Accelerati				
Measurement		asure a	nd update the p	eak	
	value.				
	Displacei			and to	
		p-p) v	nd update the p	еак то	
Max. Hold	Accelerati				
Measurement		measure and update the max. peak			
	value.				
	Displacei				
		measure and update the max. ak to peak (p-p) value.			
Zero Button.			button and the	May	
Max. Hold Rest			n on front pane		
Button					
Datalogger	Auto		nd to 3600 seco		
Sampling Time			oling time can set		
Setting range	Manual		<i>memory data may</i> he data logger b		
	iviai iuai		vill save data on		
			he sampling time i		
		0 sec			
			ual mode, can also		
Manager	CD		99 position (Local		
Memory Card Advanced			 1 GB to 16 GI Year/Month/Date, 		
setting		inute/ Se			
, <u></u>	* Decimal point of SD card setting				
	* Auto power OFF management				
	* Set beep Sound ON/OFF				
	* Set sampling time * SD memory card Format				
Data Hold			ay reading.		
Memory Recall			imum value.		
Sampling Time	Approx.				
of Display					
Data Output			computer interf		
			ntional RS232 cal not the RS232 nli		
	UPCB-02 will get the RS232 plug. * Connect the optional USB cable				
			t the USB plug.		
Operating	0 to 50 °(
Temperature					
Operating Humidity	Less than	า 85%	R.H.		
Power Supply	*.Alkalin	e or he	avy duty DC 1.5	V battery	
	(UM3, AA) x 6 PCs, or equivalent. *.DC 9V adapter input. (AC/DC power				
	*.DC 9V	adapte	r input. (AC/D0	power	
	adapte	r is opt	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	SD Card (1 G)
Accessories	SD Card (2 G)
	Type K thermocouple probe.
	AC to DC 9V adapter.
	USB cable, USB-01.
	RS232 cable, UPCB-02.
	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	e the true RMS value.

RNIS: 10 measure the true RNIS 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	

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	
Remark :	

onam. ** 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.

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 ℃
Calibration	0.141 mm (160 Hz)
Point	
Remark :	
p-p :	
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

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.

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