SD Card real time data recorder 4 in 1, + Photo tach., IR Temp., Type K Temp.

VIBRATION METER

Model: VB-8227SD

ISO-9001, CE, IEC1010





The Art of Measurement

SD Card real time data recorder 4 in 1, + Photo tach., IR Temp., Type K Temp.

VIBRATION METER

Model : VB-8227SD

FEATURES								
* Multi-function	inction ,4 in 1 one meter combine :			on	Meter : 1	182 x 73 x 47.5 mm		
1, Vibration meter, 2, Photo Tachometer.					Vibration	sensor probe:		
* Applications fo	r industrial vi	bration monitoring :			Cable le	enath : 1.2 meter.		
All industrial machinery vibrates. The level of vibration is a useful guide				ies	* Instruct	ion manual	1 PC	
to machine cor	ndition. Poor	balance, misalignment & looseness of the	Included		* Hard ca	rrying case(CA-06)	1 PC	
structure will c	ause the vibr	ation level increase, it is a sure sign that the			* Magnet	n sensor with cable	1 PC 1 PC	
* Frequency ran	* Frequency range 10 Hz - 1 kHz, sensitivity relative meet ISO 2954.				* Photo ta	achometer refecting tap	De	
 * Professional vil 	Optional		SD Card (4 G)				
& magnetic base, full set.				ies	AC to DC	9V adapter.		
* Acceleration, V	elocity meas	urement.			RS232 cal	ble, UPCB-02.		
* RMS, Max hold	I, Peak value	measurement.			Data Acqu	isition software,SW-U8	01-WIN.	
* Max. Hold rese	et button, Zer	o button.						
* Wide frequenc	y range.	be desired reading	ELECTR	ICAL SI	PECIFICAT	IONS (23±5℃)		
* Memory function	on to record	maximum and minimum reading with recall.	VIBRAT	VIBRATION				
* Separate vibra	tion probe wi	th magnetic base, easy operation.						
* Real time SD n	nemory card	Datalogger, it Built-in Clockand Calendar,real	Accelera	ation (RMS, Peak	, Max Hold)		
* Manual datalog	* Manual datalogger is available (set the sampling time to 0), during				m/s^2			
execute the ma	execute the manual datalogger function, it can set the different				0.5 to 199	9.9 m/s^2		
position (locat	position (location) No. (position 1 to position 99).			tion 0.1 m/s^2				
software after	Accuracy	·	± (5 % +	- 5 d) reading				
meter and plug	Calibratio	on	50 m/S^2	(160 Hz)				
all the measure	ed value with	the time information (year/month/date/ hou	r/ Point					
minute/second	 to the Exce 	el directly, then user can make the further	Upit		C			
* SD card capaci	ity: 1 GB to	I6 GB.	Range		0.05 to 20).39 G		
* LCD with greer	n light backlig	ht, easy reading.	Resolutio	n	0.01 G			
* Can default au	to power off	Accuracy		$\pm (5\% + 5d)$ reading				
Data hold, reco Microcomputer	Data hold, record max. and min. reading.				@ 160 Hz	; <i>80 HZ, 23 ± 5 ℃</i>		
Nilcrocomputer circuit, nign accuracy. Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.				211	50 11/5/2	(100112)		
* RS232/USB PC	COMPUTER	interface.						
			Unit		ft/s^2	*/***	<u>_</u>	
GENERAL SPEC	Custom on	b-chip of microprocessor ISI	Range	n	2 to 656 f	t/s^2		
Gircuit	circuit.	s and or microprocessor Lot	Accuracy	, , , ,	± (5% +	5 d) reading		
Display	LCD size : !	52 mm x 38 mm			@ 160 Hz	, 80 Hz, 23 ± 5 °C		
Monguram	LCD with w	hite backlight (ON/OFF).	Calibratio	on	50 m/S^2	(160 Hz)		
measurement	IR Thermore	Remai	<i>k</i> :	1				
Function	Acceleratio	RMS	S : To m	easure the t	rue RMS value.			
	Type k/J T	Pea	k : To m	neasure and	update the peak value.			
Linit	Photo tachometer Max. Hold : To measure and update to Max. Hold : To						peak value.	
Vibration	Acceleratio	n meter/s^2. g ft/s^2.	Velocity	(RMS	, Peak, Ma	x Hold)		
	Velocity	mm/s, cm/s inch/s						
Vibration	10 Hz to 1	KHz	Unit		mm/s			
Frequency Erequency range	 Sensitivit the frequencies 	y relative during the	Range	00	0.5 to 199	7.9 mm/s		
Circuit	Exclusive m	icrocomputer circuit.	Accuracy	,	± (5% +	5 d) reading		
Peak	Acceleratio	n, Velocity :			@ 160 Hz	; 80 Hz, 23 ± 5 °C		
Measurement	To meas	ure and update the peak	Calibratio	on	50 mm/s	(160 Hz)		
	Value.	Point						
	To meas	Unit		cm/s				
	peak (p-	Range		0.05 to 19	9.99 cm/s			
Max Hold	Acceleratio	Resolutio	Resolution 0. 01 cm/s					
Measurement	lo measi value	Accuracy	Accuracy $\pm (5\% + 5 d)$ reading @ 160 Hz 80 Hz 23 + 5%					
Zero Button	Under Acce	Calibratio	on	50 mm/s	(160 Hz)			
	sensor mot	Point						
Max Hold Reset	(3-5, 3-6, Under May	Unit		inch/s				
Button	two(▼, ▲)	Buttons (3-5, 3-6, Fig. 1) >3	Range		0.02 to 7.	87 inch/s		
	seconds.		Resolutio	n	0.01 inch/	's		
Datalogger	Auto	1 second to 3600 seconds	Accuracy	, ,	± (5% +	5 d) reading		
Setting range		but memory data may loss.	Calibratio	n	50 mm/s	(160 Hz)		
	Manual	Push the data logger button	Point					
		once will save data one time.	Remai	rk :				
		@ Set the sampling time to 0 second		s : To m k · To m	easure the t	rue RMS value.		
		@ Manual mode, can also select the			To measure	and update the max.	peak value.	
L		1 to 99 position (Location) no.						
Memory Card	SD memory	time (Vear/Month/Date	Туре К	thermo	meter			
setting	Hour/Mir	utte (rear/ivionth/Date, ute/ Second)	Sensor	Reso	lution	Range	Accuracy	
g	* Decimal	point of SD card setting	Type				, local de y	
	* Auto pov	ver OFF management	Туре К	0.1 °(2	-50.0 to 1300.0 °C	± (0.4 % + 0.5 °C))
	* Set beep	Sound OI* Set vibration unit		0.1 **	F	-50.1 to -100.0 °C	$\pm (0.4\% + 1\%)$	
	* SD mem	bry card F* Set Thermocouple Type		0.1	r.	-58.1 to -148.0 °F	± (0.4 % + 1.8°F))
Data error no.	<u>≤ 0.1 %</u> n	p. of total saved data typically.		· ·		,		<u> </u>
Data Hold	Freeze the	IR there	nomete	er				
Momony Desell	* Only ava	Minimum value	Emical			5 fixed value		
Nerriory Recall	* Only ava	Spectral	y respons	e 6 t	o 14 µ m (wavelength)			
Data Output	RS 232/USI	Field of V	liew D/S	6 D/3	S = Approx. 6:1 ratio (D	= distance, S =spot)		
	* Connect	[1]-34	Unit Range Resolution Accuracy					
	* Connect							
	USB-01 v	°F	-22	to 581 °F	0.1 °F ± 39	% of reading or ± 5 °F		
Sampling Time	ampling Time Approx. 1 second.					12.07		
of Display	0.40 50 %		РНОТО	Tachon	neter			
Uperating Temperature	U to 50 °C.	5% R H	Measuro	ment	5 to 99 oc	9 RPM		
and Humidity	Less tridit 6	570 K.H.	& Range	ment	5 10 99,99	Z INF IWI.		
Power Supply	* Alkaline	Resolutio	n	0.1 RPM (< 1,000 RPM). 1 RPM (≧1,000 RPM).				
	(UM3, A							
	DC 9V ac	Accuracy	,	+ (0 050	(+ 1 digit)			
Power Current	Normal ope	Photo	Accuracy Photo Tachometer detecting		mm/2 to 6 inch. (typic)	al		
	data and L	Tachome			max. 300 mm/2 to 6 inch. (typical max. 300 mm/12 inch, depending upon ambient light).			
	Approx.	detecting						
	When SD c Backlight in	distance		* Spec. of detecting distance are that under the size of reflecting tane is 10 mm square 8 the measuring				
	Approx. I				RPM value is 1,800 RPM. The max. & min. detecting			
Weight	Meter : 36			distance	e may change under dif	ferent environment,		
	Probe with				different reflecting tape or the measuring RPM beyond			
	1 UU (//))	/ 18			1 1800 0	FIM		

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