SOUND LEVEL METER

Model: SL-4023SD *ISO-9001, CE, IEC1010*









The Art of Measurement

SD Card real time data logger

SOUND LEVEL METER

Model: SL-4023SD

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* Main functions are designed to meet IEC 61672 class 2.				
* A & C weighting networks comply with standards.				
* 0.5" standard microphone head.				
* Time weighting (Fast & Slow) dynamic characteristic				
modes.				
* Build External calibration VR.				
* Auto range & Manual range selection.				
* Available for external calibration adjustment.				
* Condenser microphone for high accuracy & long-term				
stability.				
* Memory function to store the Max. & Min. value.				
* Hold and Peak Hold functions.				
* Real time SD memory card Datalogger, it Built-in Clock				
and Calendar, real time data recorder, sampling time set				
from 1 second to 3600 seconds.				
* Manual datalogger is available (set the sampling				
time to 0 second), 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 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.				
* Heavy duty & compact housing case.				

GENERAL SPECIFICATIONS

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Circuit	Custom one-chip of microprocessor LSI circuit.		
Display	LCD size : 52 mm x 38 mm		
	LCD with green backlight (ON/OFF).		
Measurement	30 - 130 dB.		
Range			
Resolution	0.1 dB.		
Function	dB (A & C frequency weighting), Time weighting (Fast, Slow), Peak hold, Data hold		
	Record (Max., Min.).		
Accuracy	Characteristics of " A " frequency		
(23 ± 5 °C)	weighting network meet IEC 61672 class 2.		
	Under 94 dB input signal, the accuracy are:		
	31.5 Hz ± 3.5 dB		
	63 Hz ± 2.5 dB 125 Hz ± 2.0 dB		
	250 Hz ± 2.0 dB		
	500 Hz ± 1.9 dB		
	1 K Hz ± 1.4 dB		
	2 K Hz ± 2.6 dB		
	4 K Hz ± 3.6 dB		
	8 K Hz ± 5.6 dB		
	Remark: The above spec. are tested under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.		
Frequency	Characteristics of A & C.		
Weighting Network	A weighting: The characteristic is simulated as "Human Ear Listing" response. Typical, if making the environmental sound level measurement, always select to A weighting.		
	C weighting The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (Q.C. check) & knowing the sound pressure level of the tested equipment.		
Data hold	To freeze the measurement value.		
Peak hold	To keep the peak (max.) measurement value.		

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Time weighting	* "Fast"	Fast - t= 200 ms * "Fast" range is simulated the human ear		
(Fast & Slow)		nse time weighting. = 500 ms		
	* "Slow"	" range is easy to get the average		
Range selector	values of vibration sound level. Auto range: 30 to 130 dB.			
	Manual i	range : ge, 30 to 80 dB, 50 to 100 dB,		
	80 to	130 dB, 50 dB on each step,		
Frequency	with over & under range indicating. 31.5 to 8,000 Hz.			
Microphone		condenser microphone.		
type Microphone	Out size, 12.7 mm DIA. (1/2 inch).			
size Calibration VR	Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.			
	* Calibra	ated via external SOUND		
Calibrator		RATOR (SC-941, optional). ruel & kjaer), MULTIFUCTION		
Datalogger	ACOUST: Auto	IC CALIBRATOR 4226. 1 second to 3600 seconds		
Sampling Time	rato	@ Sampling time can set to 1 second,		
Setting range	Manual	but memory data may loss. Push the data logger button		
		once will save data one time. @ Set the sampling time to		
		0 second.		
		@ Manual mode, can also select the 1 to 99 position (Location) no.		
Memory Card Advanced		ory card. 1 GB to 16 GB.		
setting	Hour/M	linute/ Second)		
		l point of SD card setting ower OFF management		
	* Set bee	* Set beep Sound ON/OFF		
	1	npling time mory card Format		
Over Indication	Show " -	* SD memory card Format Show " ".		
Data Hold Memory Recall		ne display reading. n & Minimum value.		
Sampling Time		Approx. 1 second.		
of Display Data Output	RS 232/U	JSB PC computer interface.		
•	* Connect the optional RS232 cable			
	UPCB-02 will get the RS232 plug. * Connect the optional USB cable			
AC output		1 will get the USB plug.		
ne output	range ste	AC 0.5 Vrms corresponding to each range step. * Output impedance : 600 ohm.		
Power off	Auto shu	it off saves battery life or		
Operating	0 to 50 °	off by push button.		
Temperature				
Operating Humidity		n 85% R.H.		
Power Supply	*.Alkaline or heavy duty DC 1.5 V battery			
	*.DC 9V	(UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power		
Power Current	adapter is optional). Normal operation (w/o SD card save			
. STEEL CUITCH	data and LCD Backlight is OFF) :			
	Approx. DC 8.5 mA. When SD card save the data but and			
	LCD Backlight is OFF) :			
	* If LCD	* If LCD backlight on, the power		
	consumption will increase approx.			
Weight	14 mA. 489 g/1.08 LB.			
Dimension		x 45 mm. 7x 1 9 inch)		
Accessories Included		(9.6 x 2.7x 1.9 inch). * Instruction manual		
Optional	* Sound	calibrator (94 dB), SC-941.		
Accessories	* Sound calibrator (94/114 dB), SC-942. * Sound wind shield ball, SB-01			
	* SD Card (1 GB)			
	* SD Card (2 GB)			
	* USB cable, USB-01. * RS232 cable, UPCB-02.			
	* Data Acquisition software, SW-U801-WIN.			
	* AC to DC 9V adapter.			
	* Soft carrying case, CA-05A.			
	* Hard o	arrying case, CA-06.		

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