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.

CENEDAL SDECIFICATIONS

GENERAL SPEC	
Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm
Display	LCD with green backlight (ON/OFF).
Measurement	30 - 130 dB.
Range	30 - 130 dB.
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 ± 1.9 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 Weighting	Characteristics of A & C.
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.

Time	Fast - t= 200 ms				
weighting	* "Fast" range is simulated the human ear				
(Fast & Slow)	response time weighti Slow - t = 500 ms	ng.			
	* "Slow" range is easy to	get the average			
	values of vibration so				
Range selector	Auto range: 30 to 130 dB.				
-	Manual range :				
	3 range, 30 to 80 dB, 50 to 100 dB, 80 to 130 dB, 50 dB on each step,				
Frequency	with over & under range 31.5 to 8,000 Hz.	ge indicating.			
Microphone	Electric condenser microp	hone			
type	Electric condenser microp	orioric.			
Microphone	Out size, 12.7 mm DIA. ((1/2 inch).			
size	Build in external calibration VR, easy to				
Calibration VR	calibrate on 94 dB level by screw driver.				
	* Calibrated via external SOUND CALIBRATOR (SC-941, optional).				
	CALIBRATOR (SC-941	, optional).			
Calibrator	B & K (Bruel & kjaer), MULTIFUCTION				
	ACOUSTIC CALIBRATOR				
Datalogger	Auto 1 second to 360				
Sampling Time Setting range		can set to 1 second,			
Setting range	Manual Push the data lo				
	once will save of				
	@ Set the sampling				
	0 second.	•			
		can also select the			
Ma		(Location) no.			
Memory Card Advanced	SD memory card. 1 GB to * Set clock time (Year/Month				
setting	Hour/Minute/ Second)	in/Date,			
setting	* Decimal point of SD card s	settina			
	* Auto power OFF managem				
	* Set beep Sound ON/OFF				
	* Set sampling time				
	* SD memory card Format				
Over Indication	Show " ".				
Data Hold	Freeze the display readin				
Memory Recall	Maximum & Minimum va	lue.			
Sampling Time	Approx. 1 second.				
of Display Data Output	RS 232/USB PC compute	r interface			
Data Output	* Connect the optional RS				
	UPCB-02 will get the RS.				
	* Connect the optional US				
	USB-01 will get the USB	plug.			
AC output	AC 0.5 Vrms correspondi	ng to each			
	range step.				
	* Output impedance : 60				
Power off	Auto shut off saves battery life or				
0 !!	manual off by push butto	n.			
Operating	0 to 50 ℃.				
Temperature Operating	Less than 85% R.H.				
Humidity	Less than 65 /6 K.H.				
Power Supply	*.Alkaline or heavy duty	DC 1.5 V battery			
	(UM3, AA) x 6 PCs, o				
	*.DC 9V adapter input. (AC/DC power				
	adapter is optional).				
Power Current	Normal operation (w/o S				
	data and LCD Backlight is OFF) :				
	Approx. DC 8.5 mA.				
	When SD card save the o	tata but and			
	LCD Backlight is OFF) :				
	* If I CD backlight on th	nower			
	* If LCD backlight on, the consumption will increase				
	14 mA.	изс ирргол.			
Weight	489 g/1.08 LB.				
Dimension	245 x 68 x 45 mm.				
	(9.6 x 2.7x 1.9 inch).				
Accessories	* Instruction manual	1 PC			
Included					
Optional	* Sound calibrator (94 c				
Accessories	* Sound calibrator (94/1				
	* Sound wind shield ball	, 2R-01			
	* SD Card (1 GB)				
	* SD Card (2 GB)				
	* USB cable, USB-01. * RS232 cable, UPCB-02				
	* Data Acquisition software				
	SW-U801-WIN.	ui C,			
	* AC to DC 9V adapter.	05A.			

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