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

FEATURES

* 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),
i unction	Time weighting (Fast, Slow),
	Peak hold, Data hold
	The state of the s
	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	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.
	weighting.
	Cweighting
	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.
	value.

3SD		
Time	Fast - t= 200 ms	
weighting	* "Fast" range is simulated the human ear	
(Fast & Slow)	response time weighting.	
	Slow - $t = 500 \text{ ms}$	
	* "Slow" range is easy to get the average	
Danga calastar	values of vibration sound level.	
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,	
	with over & under range indicating.	
Frequency	31.5 to 8,000 Hz.	
Microphone	Electric condenser microphone.	
type	Out size, 12.7 mm DIA. (1/2 inch).	
Microphone size	Out size, 12.7 mm bia. (172 mch).	
Calibration VR	Build in external calibration VR, easy to	
	calibrate on 94 dB level by screw driver.	
	* Calibrated via external SOUND	
Calibrator	CALIBRATOR (SC-941, optional). B & K (Bruel & kjaer), MULTIFUCTION	
Calibrator	ACOUSTIC CALIBRATOR 4226.	
Datalogger	Auto 1 second to 3600 seconds	
Sampling Time	@ Sampling time can set to 1 second,	
Setting range	but memory data may loss.	
_	Manual Push the data logger button	
	once will save data one time.	
	@ Set the sampling time to	
Ì	0 second. @ Manual mode, can also select the	
	1 to 99 position (Location) no.	
Memory Card	SD memory card. 1 GB to 16 GB.	
Advanced	* Set clock time (Year/Month/Date,	
setting	Hour/Minute/ Second)	
	* Decimal point of SD card setting	
	* Auto power OFF management	
	* Set beep Sound ON/OFF	
	* Set sampling time	
Over Indication	* SD memory card Format Show " ".	
Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Sampling Time	Approx. 1 second.	
of Display	''	
Data Output	RS 232/USB PC computer interface.	
	* Connect the optional RS232 cable	
	UPCB-02 will get the RS232 plug.	
	* Connect the optional USB cable	
	USB-01 will get the USB plug.	
Power off	Auto shut off saves battery life or	
Operating	manual off by push button. 0 to 50 $^{\circ}$ C.	
Temperature	0 10 50 C.	
Operating	Less than 85% R.H.	
Humidity	2000 (1141) 00 /0 (111)	
Power Supply	* Alkaline or heavy duty DC 1.5 V battery	
	(UM3, AA) x 6 PCs, or equivalent.	
	*.DC 9V adapter input. (AC/DC power	
	adapter is optional).	
Power Current	Normal operation (w/o SD card save	
	data and LCD Backlight is OFF) :	
	Approx. DC 8.5 mA.	
	When SD card save the data but and	
	LCD Backlight is OFF):	
	Approx. DC 30 mA. * If LCD backlight on, the power	
	consumption will increase approx.	
	14 mA.	
Weight	489 g/1.08 LB.	
Dimension	245 x 68 x 45 mm.	
	(9.6 x 2.7x 1.9 inch).	
Accessories	* Instruction manual1 PC	
Included		
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 carrying case, CA-06.	
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