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

GENERAL SPE	CIFICATION	>				
Circuit		Custom one-chip of microprocessor LSI				
D: 1		circuit.				
Display	LCD size : 52 mm x 38 mm					
		LCD with green backlight (ON/OFF).				
Measurement	30 - 130 dE	30 - 130 dB.				
Range	0.1 dD					
Resolution		0.1 dB.				
Function		dB (A & C frequency weighting),				
	Time weighting (Fast, Slow), Peak hold, Data hold Record (Max., Min.).					
Accuracy	Characteris	tics of	" Δ " frequency			
(23 ± 5 °C)		Characteristics of " A " frequency weighting network meet IEC 61672-1-2013				
(20 ± 0 €)	class 2.					
	0.000 2.					
	Under 94 d	B inpu	it signal, the accuracy			
	are:					
	31.5	Hz	reading ±3.0 dB			
	63	Hz	reading ±2.0 dB			
	125	Hz	reading ±1.5 dB			
	250	Hz	reading ±1.5 dB			
	500	Hz	reading ±1.5 dB			
	1 K	Hz	reading ±1.0 dB			
	2 K	Hz	reading ±2.0 dB			
	4 K	Hz	reading ±3.0 dB			
	8 K	Hz	reading ±5.0 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	Characteris	tics 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.					
	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.					
eak hold To keep the peak (max.) measuremen						
	value.					

	In				
Time	Fast - t= 125 ms				
weighting (Fast & Slow)	* "Fast" range is simulated the human ear response time weighting.				
(rasi & siow)	Slow - t = 1 Sec.				
	* "Slow" range is easy to get the average				
	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,				
Frequency	with over & under range indicating. 31.5 to 8,000 Hz.				
Microphone	Electric condenser microphone.				
type	Electric condenser micropriorie.				
Microphone	Out size, 12.7 mm DIA. (1/2 inch).				
size	out size, 12.7 min bir ii (172 iilori).				
Calibration VR	Build in external calibration VR, easy to				
	calibrate on 94 dB level by screw driver.				
	* Calibrated via external SOUND				
Calibrator	B & K (Bruel & kjaer), MULTIFUCTION				
Calibrator	ACOUSTIC CALIBRATOR 4226.				
Datalogger	Auto 1, 2, 5, 10, 30, 60, 120, 300, 600,				
Sampling Time	1800, 3600 seconds.				
Setting range	@ set 1 sec. memory data may loss.				
0 0	Manual Push the data logger button				
	once will save data one time.				
	@ Set the sampling time to				
	0 second.				
	@ Manual mode, can also select the				
Memory Card	1 to 99 position (Location) no. 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				
	* SD memory card Format				
Over Indication	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.				
AC output	AC 0.5 Vrms corresponding to each				
	range step.				
Power off	* Output impedance : 600 ohm.				
Power on	Auto shut off (approx.10 Minutes) saves				
Onorotina	Battery life or manual off by push button. 0 to 50 °C.				
Operating	0 10 50 (.				
Temperature Operating	Less than 85% R.H.				
Operating Humidity	Less than 60 /6 K.H.				
Power Supply	* Alkaline or heavy duty DC 1.5 V battery				
. Over Supply	(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 12 mA.				
	When SD card save the data but and				
	LCD Backlight is OFF) :				
	Approx. DC 31 mA.				
	* if LCD backlight on, the power				
	consumption will increase approx.				
	8 mA.				
Weight	320 g/0.7 LB.(without battery)				
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 dB), SC-941.				
Accessories	* Sound calibrator (94/114 dB), SC-942.				
	* Sound wind shield ball, SB-01				
	* SD Card				
	* USB cable, USB-01.				
	* RS232 cable, UPCB-02.				
	* RS232 cable, UPCB-02.* Data Acquisition software,				
	* Data Acquisition software, SW-U801-WIN.				
	* Data Acquisition software,				
	* Data Acquisition software, SW-U801-WIN.				

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