## SOUND LEVEL METER

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









The Art of Measurement

## SD Card real time data logger **SOUND LEVEL METER**

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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.

GENER		

GENERAL SPE	
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 ± 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
	0 K 112 ± 0.0 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 Weighting	Characteristics of A & C.
weignling Network	A weighting:
INCLINOIK	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
. can noid	value.
	value.

Time	Fast - t=	200 ms
weighting		ange is simulated the human ear
(Fast & Slow)		nse time weighting.
(i dat d blow)		= 500 ms
		" range is easy to get the average
		es of vibration sound level.
Range selector		age: 30 to 130 dB.
	Manual r	
		je, 30 to 80 dB, 50 to 100 dB,
		130 dB, 50 dB on each step,
	with o	ver & under range indicating.
Frequency	31.5 to 8	3,000 Hz.
Microphone	Electric o	condenser microphone.
type		•
Microphone	Out size,	12.7 mm DIA. ( 1/2 inch).
size		
Calibration VR		external calibration VR, easy to
		on 94 dB level by screw driver.
	* Calibra	ated via external SOUND
CALIBRATOR ( SC-941, optional		
Calibrator		ruel & kjaer), MULTIFUCTION
Datalanan		IC CALIBRATOR 4226.
Datalogger	Auto	1 second to 3600 seconds
Sampling Time		@ Sampling time can set to 1 second,
Setting range	Manage	but memory data may loss.
	Manual	Push the data logger button
	1	once will save data one time.
	1	@ Set the sampling time to
		0 second.  @ Manual mode, can also solest the
	1	@ Manual mode, can also select the
Memory Cord	SD mom	1 to 99 position (Location) no.
Memory Card Advanced		ory card. 1 GB to 16 GB.
		ck time ( Year/Month/Date, linute/ Second )
setting		Inute/ Second ) I point of SD card setting
		ower OFF management
		p Sound ON/OFF
		npling time
0 1 1: 1:	* SD men	mory card Format
Over Indication	Show " -	
Data Hold		ne display reading.
Memory Recall		n & Minimum value.
Sampling Time	Approx.	1 second.
of Display		
Data Output		JSB PC computer interface.
	* Connec	ct the optional RS232 cable
	UPCB-0	02 will get the RS232 plug.
	* Connec	ct the optional USB cable
		ct the optional obb cable
		•
Power off	USB-0	1 will get the USB plug.
Power off	USB-0: Auto shu	1 will get the USB plug. It off saves battery life or
	USB-0: Auto shu	1 will get the USB plug.  It off saves battery life or off by push button.
Operating	USB-0: Auto shu manual d	1 will get the USB plug.  It off saves battery life or off by push button.
Operating Temperature	Auto shu manual o	1 will get the USB plug.  It off saves battery life or off by push button.
Operating Temperature Operating	Auto shu manual o	1 will get the USB plug. It off saves battery life or off by push button. C.
Operating Temperature Operating Humidity	Auto shu manual o 0 to 50 °C	1 will get the USB plug.  It off saves battery life or off by push button.  C.  n 85% R.H.
Operating Temperature Operating Humidity	USB-0: Auto shu manual c 0 to 50 °C  Less than  * Alkalin	1 will get the USB plug.  It off saves battery life or off by push button. C.  In 85% R.H.  In or heavy duty DC 1.5 V battery
Operating Temperature Operating Humidity	USB-0: Auto shu manual c 0 to 50 °C  Less than  *.Alkalin ( UM3)	1 will get the USB plug.  It off saves battery life or  off by push button.  C.  In 85% R.H.  In or heavy duty DC 1.5 V battery  In AA) x 6 PCs, or equivalent.
Operating Temperature Operating Humidity	USB-0. Auto shu manual c 0 to 50 °C  Less thai  *.Alkalin ( UM3, *.DC 9V	1 will get the USB plug.  It off saves battery life or off by push button. C.  In 85% R.H.  In or heavy duty DC 1.5 V battery In AA) x 6 PCs, or equivalent.  In adapter input. (AC/DC power
Operating Temperature Operating Humidity Power Supply	USB-0. Auto shu manual c 0 to 50 °c  Less thai  *.Alkalin ( UM3, *.DC 9V adapte	1 will get the USB plug.  It off saves battery life or off by push button.  C.  In 85% R.H.  In e or heavy duty DC 1.5 V battery  AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional).
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Operating Temperature Operating Humidity Power Supply	#.Alkalin ( UM3, *.DC 9V Normal c data and Appro.	1 will get the USB plug.  It off saves battery life or off by push button.  C.  In 85% R.H.  It or heavy duty DC 1.5 V battery, AA) x 6 PCs, or equivalent. adapter input. (AC/DC power er is optional). Deperation ( w/o SD card save ILCD Backlight is OFF): x. DC 8.5 mA.
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PATENT