SOUND LEVEL METER Model : SL-4023SD ISO-9001, CE, IEC1010

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ISO-9001, CE, IEC10 02-2389-0101









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The Art of Measurement

SD Card real time data logger SL-4023S SOUND LEVEL METER

FFATURES

 * Main functions are designed to meet IEC 61672 class 2. * A & C weighting networks comply with standards. * O.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 into the computer, it
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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

ULINLIVAL JI L	
Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm
	LCD with green backlight (ON/OFF).
Measurem	30 - 130 dB.
ent 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 weighting
(23 ± 5 ℃)	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
	$4 \text{ K Hz} \pm 3.6 \text{ dB}$
	8 K Hz $\pm 5.6 \text{ dB}$
	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	A weighting :
Network	The characteristic is simulated as "Human Ear Listing"
Nelwork	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.
r cak nolu	To keep the peak (max.) measurement value.

Time weighting (Fast &	Fast - t= 200 ms
	* "Fast" range is simulated the human ear response time
Slow)	
	weighting.
	Slow - $t = 500 \text{ ms}$
	* "Slow" range is easy to get the average values of vibration around local
.	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 type	Electric condenser microphone.
Microphone size	Out size, 12.7 mm DIA. (1/2 inch).
Calibration VR	Build in external calibration VR, easy to calibrate on 94 dB
	level by screw driver.
	* Calibrated via external SOUND CALIBRATOR (SC-
	941, optional).
Calibrator	B & K (Bruel & kjaer), MULTIFUCTION
	ACOUSTIC CALÍBRÁTOR 4226.
Datalogger Sampling Time	Auto 1 second to 3600 seconds
Setting range	@ Sampling time can set to 1 second, but memory data
	may loss.
	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
	1 to 99 position (Location) no.
Momony Card	SD memory card. 1 GB to 16 GB.
Memory Card	
Advanced setting	* Set clock time (Year/Month/Date, Hour/Minute/
	Second)
	* Decimal point of SD cardsetting
	* Auto power OFF management
	* Set beep Sound ON/OFF
	* Set sampling time
	* SD memory cardFormat
Over Indication	Show " ".
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time of Display	Approx. 1 second.
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.
	* Output impedance : 600 ohm.
Power off	Auto shut off saves battery life or manual off by push butto
Operating Temperature	0 to 50 $^{\circ}$ C.
Operating Humidity	Less than 85% R.H.
Power Supply	* Alkaline or heavy duty DC 1.5 V battery
ower 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 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
Weight	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 Included	* Instruction manual 1 PC
Optional Accessories	* Sound calibrator (94 dB), SC-941.
	* 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.
	* RS232 cable, UPCB-02.
	* RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN.
	 * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN. * AC to DC 9V adapter.
	* RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN.

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