SD Card, real time data logger, Patent

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

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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 SPE		,
Circuit	Custom one-chip of microprocessor LSI	
D: 1	circuit.	
Display	LCD size : 52 mm x 38 mm	0
A +	LCD with green backlight (ON/OFF). 30 - 130 dB.	0
Measurement	30 - 130 dB.	Da
Range	0.1 dB.	Me
Resolution Function		Sa
runction	dB (A & C frequency weighting),	of Da
	Time weighting (Fast, Slow), Peak hold, Data hold	Da
A	Record (Max., Min.).	
Accuracy	Characteristics of " A " frequency	
(23 ± 5 ℃)	weighting network meet IEC 61672	
	class 2.	Pc
	Under 94 dB input signal, the accuracy	Or
	are :	
		Te
	31.5 Hz ± 3.5 dB	0
	63 Hz ± 2.5 dB	Hu
	125 Hz ± 2.0 dB	Pc
	250 Hz ± 1.9 dB	
	500 Hz ± 1.9 dB	
	1 K Hz ± 1.4 dB	
	2 K Hz ± 2.6 dB	Po
	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.	W
Weighting	Characteristics of A & C.	
Network	A weighting :	Ac
Network	The characteristic is simulated as "Human	In
	Ear Listing" response. Typical, if making	Op
	the environmental sound level	Ac
	measurement, always select to A	AU
	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.	$\left\{ \right\}$
Peak hold	To keep the peak (max.) measurement	
reak noiu	value.	
PATENT	CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189	917.0
	Campany, Na 20 2000 01/ 227 4	

weighting	* "Fast" range is simulated the human e
(Fast & Slow)	response time weighting. Slow - t = 500 ms
	* "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,
	with over & under range indicating.
Frequency Microphone	31.5 to 8,000 Hz. Electric condenser microphone.
type	Lieune condenser microphone.
Microphone	Out size, 12.7 mm DIA. (1/2 inch).
size Calibration VR	Duild in outernal calibration VD ecourts
Calibration VR	Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.
	* Calibrated via external SOUND
0 111 1	CALIBRATOR (SC-941, optional).
Calibrator	B & K (Bruel & kjaer), MULTIFUCTION 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
	0 second.
	@ Manual mode, can also select the
Memory Card	1 to 99 position (Location) no. SD memory card. 1 GB to 16 GB.
Memory Card Advanced	SD memory card. 1 GB to 16 GB. * 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	DS 222/USB DC computer interface
	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.
Temperature	0.10.00 (0.1
Operating	Less than 85% R.H.
Humidity	
Power Supply	* Alkaline or heavy duty DC 1.5 V batter
	(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
Power Current	
Power Current	data and LCD Backlight is OFF) :
Power Current	data and LCD Backlight is OFF) : Approx. DC 8.5 mA.
Power Current	data and LCD Backlight is OFF) : <u>Approx. DC 8.5 mA.</u> When SD card save the data but and
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 PATENT
 CHINA : ZL 2008 2 0189918.5
 ZL 2008 2 0189917.0
 TAIWAN : M 35893

 Germany : Nr. 20 2008 016 337.4
 JAPAN : 3151214
 U.S.A. : Pending

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