## SD Card, real time data logger, Patent

## SOUND LEVEL METER

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







勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

The Art of Measurement

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SD Card real time data logger SOUND LEVEL METER

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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.
<ul> <li>Real time SD memory card Datalogger, it Built-in Clock</li> </ul>
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 ).
<ul> <li>* Innovation and easy operation, computer is not need to</li> </ul>
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.
<ul> <li>LCD with green light backlight, easy reading.</li> </ul>
* 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

Circuit	Custom one-chip of microprocessor LSI circuit.			
Display	LCD size: 52 mm x 38 mm LCD with green backlight ( ON/OFF ).			
Measurement Range	30 - 130 dB.			
Resolution	0.1 dB.			
Function	dB ( A & C frequency weighting ), Time weighting ( Fast, Slow ), Peak hold, Data hold Record ( Max., Min. ).			
Accuracy (23 ± 5 °C)	Characteristics of " A " frequency weighting network meet IEC 61672 class 2.  Under 94 dB input signal, the accuracy are:			
M.M.M.10 M.M.M.10 M.M.M.100	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			
MM,	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 Network	Characteristics of A & C.  A weighting: The characteristic is simulated as "Human Ear Listing" response. Typical, if making the environmental sound level measurement, always select to A weighting.			
Data hold	C weighting The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (O.C. check) & knowing the sound pressure level of the tested equipment. To freeze the measurement value.			
Peak hold	To keep the peak ( max. ) measurement value.			

Time	Fact +	200 ms	
weighting	Fast - t= 200 ms  * "Fast" range is simulated the human ear		
(Fast & Slow)		nse time weighting.	
		= 500 ms	
		' range is easy to get the average is of vibration sound level.	
Range selector	Auto ran	ge: 30 to 130 dB.	
	Manual range: 3 range, 30 to 80 dB, 50 to 100 dB,		
		130 dB, 50 dB on each step,	
100		ver & under range indicating.	
Frequency Microphone		3,000 Hz. condenser microphone.	
type .	-1	ON	
Microphone	Out size,	12.7 mm DIA. ( 1/2 inch).	
size Calibration VR	Build in 6	external calibration VR, easy to	
Wix	calibrate	on 94 dB level by screw driver.	
		ated via external SOUND	
Calibrator		RATOR (SC-941, optional). ruel & kjaer), MULTIFUCTION	
	ACOUST	IC CALIBRATOR 4226.	
Datalogger	Auto	1 second to 3600 seconds	
Sampling Time Setting range	TW.1	@ Sampling time can set to 1 second, but memory data may loss.	
setting runge	Manual	Push the data logger button	
	WW.	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.	
Memory Card		ory card. 1 GB to 16 GB.	
Advanced setting		ck time ( Year/Month/Date, inute/ Second )	
setting		I point of SD card setting	
		ower OFF management	
		p Sound ON/OFF ppling time	
		nory card Format	
Over Indication	Show " -		
Data Hold	Freeze the display reading.		
Memory Recall		n & Minimum value.	
Sampling Time of Display	Approx.	1 second.	
Data Output	RS 232/l	JSB PC computer interface.	
COMPT	* Connect the optional RS232 cable		
		02 will get the RS232 plug.	
	-	ct the optional USB cable	
AC output		rms corresponding to each	
no output	range ste		
01.	* Outpu	impedance : 600 ohm.	
Power off		t off saves battery life or	
Operating	0 to 50	off by push button.	
Operating Temperature	0 10 30	A. M. 100	
Operating	Less that	n 85% R.H.	
Humidity	TI	N N T	
Power Supply		e or heavy duty DC 1.5 V battery	
		, AA) x 6 PCs, or equivalent. adapter input. ( AC/DC power	
		er is optional ).	
Power Current		operation ( w/o SD card save	
	100	LCD Backlight is OFF) :	
		x. DC 8.5 mA. Decard save the data but and	
		card save the data but and klight is OFF) :	
		x. DC 30 mA.	
		backlight on, the power	
		mption will increase approx.	
	14 m/		
Mojest	100 ~/1		
Weight	489 g/1.	v 45 mm	
Weight Dimension	245 x 68		
Dimension Accessories	245 x 68 ( 9.6 x 2	x 45 mm. .7x 1.9 inch ). ction manual 1 PC	
Dimension Accessories Included	245 x 68 ( 9.6 x 2 * Instru	.7x 1.9 inch ). ction manual1 PC	
Dimension Accessories Included Optional	245 x 68 ( 9.6 x 2 * Instruction*	.7x 1.9 inch ). ction manual 1 PC calibrator ( 94 dB ), SC-941.	
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Dimension Accessories Included Optional	* Sound * Sound * Sound * Sound * Sound * Sound * SD Ca	.7x 1.9 inch ). ction manual	
Dimension Accessories Included Optional	* Sound * Sound * Sound * Sound * Sound * Sound * SD Ca * SD Ca	.7x 1.9 inch ). ction manual	
Dimension Accessories Included Optional	245 x 68 ( 9.6 x 2 * Instruction * Sound * Sound * Sound * SD Ca * SD Ca * USB Ca * RS232	.7x 1.9 inch ).  ction manual	
Dimension Accessories Included Optional	* Sound * Sound * Sound * Sound * Sound * Sound * Sound * SD Ca * SD Ca * USB Ca * RS232 * Data A	.7x 1.9 inch ). ction manual	
Dimension Accessories Included Optional	* Sound * Sound * Sound * Sound * SD Ca * SD Ca * USB ca * RS232 * Data A SW-U8 * AC to	.7x 1.9 inch ). ction manual	
Dimension Accessories ncluded Optional	245 x 68 ( 9.6 x 2 * Instruction	.7x 1.9 inch ). ction manual	

PATENT	CHINA: ZL 2008 2 0189918.5 ZL 2008 2 0189917.0		TAIWAN: M 358970 M 359043	
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<sup>\*</sup> Appearance and specifications listed in this brochure are subject to change without notice.