

# **SL-4033 SD SOUND LEVEL METER**

## SD Card, real time data logger, Patent

## ISO-9001, CE, IEC1010







Hard carrying case, CA-06



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

### Model: SL-4033SD

#### **FEATURES**

FEATURES
* Frequency and time weighting meet IEC 61672 class 1
* 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**

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 1		
	Under 94 dB input signal, the accuracy		
	are :		
	31.5Hz ± 2.0 dB		
	63 Hz ± 1.5 dB		
	125 Hz   ± 1.5 dB		
	250 Hz   ± 1.4 dB		
	500 Hz   ± 1.4 dB		
	1 K Hz ± 1.1 dB		
	2 K Hz   ± 1.6 dB		
	4 K Hz   ± 1.6 dB		
	8 K Hz + 2.1 dB , -3.1 dB		
	12.5 KHz + 3.0 dB, -6.0 dB		
	16 KHz   + 3.5 dB, -17.0 dB		
	Barrart .		
	Remark:		
	The above spec. are tested under the		
	environment RF Field Strength less		
	than 3 V/M & frequency less than 30		
Fraguana	MHz only. Characteristics of A & C.		
Frequency	Characteristics of A & C.		
Weighting	A 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.		
	Cweighting		
	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		
Data hold	level of the tested equipment.		
Data hold	To freeze the measurement value.		

	To keep the peak ( max. ) measurement value. Fast - t= 200 ms			
Time				
weighting	* "Fast"	range is simulated the human ear		
(Fast & Slow)	response time weighting.			
	Slow - t = 500 ms  * "Slow" range is easy to get the average			
	* "Slow" range is easy to get the average			
Range selector	values of vibration sound level.  Auto range: 30 to 130 dB.			
Range selector	Manual range :			
		3 range, 30 to 80 dB, 50 to 100 dB,		
	80 to	130 dB, 50 dB on each step,		
		ver & under range indicating.		
Frequency	31.5 to 16 KHz.			
Microphone	Electric condenser microphone.			
type				
Microphone size	Out size, 12.7 mm DIA. ( 1/2 inch).			
Calibration VR	Build in external calibration VR, easy to			
		on 94 dB level by screw driver.		
	* Calibrated via external SOUND			
Calibuatau	CALIBRATOR ( SC-941, optional ).  B & K (Bruel & kjaer), Multifunction			
Calibrator	Acquetic	Calibrator 4226		
Dataloggar	Acoustic	Calibrator 4226.		
Datalogger	Auto	1 second to 3600 seconds  @ Sampling time can set to 1 second,		
Sampling Time Setting range		1- , -		
Jetung range	Manual	but memory data may loss.  Push the data logger button		
	iridiludi	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	SD mem	ory card. 1 GB to 16 GB.		
Advanced		ck time ( Year/Month/Date,		
setting				
Security	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 " -			
Over Indication				
Data Hold		ne display reading.		
Memory Recall		n & Minimum value.		
Sampling Time	Approx.	1 second.		
of Display	RS 232/USB PC computer interface.			
Data Output				
	* Connect the optional RS232 cable			
	UPCB-02 will get the RS232 plug.			
	* Connect the optional USB cable			
Power off		1 will get the USB plug.		
rowei OII		t off saves battery life or		
Onorotic -	0 to 50	off by push button.		
Operating	0 (0 50	··		
Temperature	1	- 050/ D.H		
Operating	Less thai	า 85% R.H.		
Humidity Power Supply	* All1:	o or hopey duty DC 1 F V hatter		
Power Supply	^ Alkalin	e or heavy duty DC 1.5 V battery		
	( UM3, AA ) x 6 PCs, or equivalent. *.DC 9V adapter input. ( AC/DC power			
	adapter is optional ).			
	adapte	er is optional ).		
Power Current	Normal of	er is optional ). operation ( w/o SD card save		
Power Current	Normal o	er is optional ). operation ( w/o SD card save I LCD Backlight is OFF) :		
Power Current	Normal of data and Approx	er is optional ). Operation ( w/o SD card save LCD Backlight is OFF) :  X. DC 8.5 mA.		
Power Current	Normal of data and Approximate When SE	er is optional ).  operation ( w/o SD card save   LCD Backlight is OFF) :  x. DC 8.5 mA.  cord save the data but and		
Power Current	Normal control of the	er is optional ).  operation ( w/o SD card save   LCD Backlight is OFF) :  x. DC 8.5 mA.  D card save the data but and klight is OFF) :		
Power Current	Normal control of the second o	er is optional ).  operation ( w/o SD card save LCD Backlight is OFF) :  x. DC 8.5 mA.  o card save the data but and dight is OFF) :  x. DC 30 mA.		
Power Current	adapte Normal c data and Appro. When SE LCD Back Appro. * .If LCD	er is optional ).  operation ( w/o SD card save LCD Backlight is OFF) :  x. DC 8.5 mA.  o card save the data but and klight is OFF) :  x. DC 30 mA.  backlight on, the power		
Power Current	adapte Normal c data and Appro. When SE LCD Back Appro. * .If LCD	er is optional ).  operation ( w/o SD card save LCD Backlight is OFF) :  x. DC 8.5 mA.  o card save the data but and dight is OFF) :  x. DC 30 mA.		
Power Current	adapte Normal c data and Appro. When SE LCD Back Appro. * .If LCD	er is optional ).  operation ( w/o SD card save LCD Backlight is OFF):  x. DC 8.5 mA.  o card save the data but and klight is OFF):  x. DC 30 mA.  b backlight on, the power  mption will increase approx.		
Power Current  Weight	adapte Normal c data and Appro. When SE LCD Back Appro. * .If LCD consult 14 mA 489 g/1.	er is optional ).  operation ( w/o SD card save   LCD Backlight is OFF) :  x. DC 8.5 mA.  o card save the data but and klight is OFF) :  x. DC 30 mA.  backlight on, the power mption will increase approx.		
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Weight	adapte Normal c data and Appro. When SE LCD Back Appro. * .If LCD consul 14 mA 489 g/1. 245 x 68 ( 9.6 x 2	er is optional ).  operation ( w/o SD card save LCD Backlight is OFF) : xx. DC 8.5 mA.  O card save the data but and klight is OFF) : xx. DC 30 mA.  O backlight on, the power inption will increase approx.  I.  OB LB.  I x 45 mm.  I y 17 mm.  I y 27 mm.  I y 37 mm.		
Weight	adapte Normal c data and Appro. When SE LCD Back Appro. * .If LCD consul 14 mA 489 g/1. 245 x 68 ( 9.6 x 2	er is optional ).  operation ( w/o SD card save   LCD Backlight is OFF) :  x. DC 8.5 mA.  o card save the data but and klight is OFF) :  x. DC 30 mA.  backlight on, the power mption will increase approx.		
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\* Appearance and specifications listed in this brochure are subject to change without notice.



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