SD Card, real time data logger, Patent Frequency and Time weighting meet IEC 61672 class 1

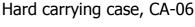
SOUND LEVEL METER

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The Art of Measurement

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

Model: SL-4033SD

EATURES	•
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 se	t
from 1 second to 3600 seconds.	
Manual datalogger is available (set the sampling	
time to 0 second), during execute the manual datalogg	er
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	9
away the SD card from the meter and plug in the SD ca	rd
into the computer, it can down load the all the measure	d
value with the time information (year/month/date/	
hour/minute/second) to the Excel directly, then user ca	n
make the further data or graphic analysis by themselves	i.
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 adapt	er.
RS232/ÚSB PC COMPUTER interface.	
Heavy duty & compact housing case.	

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GENERAL SPE	CIFICATIONS				
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	Characteristics of " A " frequency				
(23 ± 5 °C)	weighting network meet IEC 61672 class 1				
	Under 94 dB input signal, the accuracy are :				
	31.5 Hz ± 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				
	10 KHZ + 5.5 db, -17.0 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	Characteristics of A & C.				
Weighting Network	A weighting:				
INCLINOIR	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.				
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3SD			
Peak hold	To keep the peak (max.) measurement		
Time	value. Fast - t= 200 ms		
weighting	* "Fast" range is simulated the human ear		
(Fast & Slow)	response time weighting.		
,	Slow $\dot{t} = 500 \text{ ms}$		
	* "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	31.5 to 16 KHz.		
Microphone	Electric condenser microphone.		
type	0.1.1.10.7.10.10.10		
Microphone size	Out size, 12.7 mm DIA. (1/2 inch).		
Calibration VR	Build in external calibration VR, easy to		
Cambration VII	calibrate on 94 dB level by screw driver.		
	* Calibrated via external SOUND		
	CALIBRATOR (SC-941, optional).		
Calibrator	B & K (Bruel & kiaer), Multifunction		
5	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		
	1 to 99 position (Location) no.		
Memory Card Advanced	SD memory card. 1 GB to 16 GB.		
setting	* Set clock time (Year/Month/Date, Hour/Minute/ Second)		
setting	* 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	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		
TOWER OIL	manual off by push button.		
Operating	0 to 50 ℃.		
Temperature	0 10 50 0.		
Operating	Less than 85% R.H.		
Humidity			
Power Supply	* Alkaline 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).		
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 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	* Instruction manual 1 PC		
Included	* Hard carrying case, CA-061 PC		
Optional	* Sound calibrator (94 dB), SC-941.		
Accessories	* Sound calibrator (94/114 dB), SC-942.		
	* Sound wind shield ball, SB-01		
	* SD Card (2 GB)		
	* USB cable, USB-01.		
	* RS232 cable, UPCB-02.		
	* Data Acquisition software,		
	SW-U801-WIN.		
	* AC to DC 9V adapter.		
	* Soft carrying case, CA-05A.		
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PATENT | CHINA : ZL 2008 2 0189918.5 | ZL 2008 2 0189917.0 | T | Germany : Nr. 20 2008 016 337.4 | JAPAN : 3151214 | * Appearance and specifications listed in this brochure are subject to change without notice. TAIWAN: M 358970 M 359043 U.S.A.: Pending