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

SOUND LEVEL METER

Model: SL-4033SD *ISO-9001, CE, IEC1010*







Hard carrying case, CA-06



The Art of Measurement

SD Card real time data logger

SOUND LEVEL METER

Model: SL-4033SD

FEATURES

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* 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.

	CATIONS

GENERAL SPE					
Circuit	Custom on circuit.	Custom one-chip of microprocessor LSI			
Display	LCD size :	52 mm	v 38 mm		
Display	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 weighting				
(23 ± 5 °C)	network meet IEC 61672-1-2013				
	class 1				
	Under 94 dB input signal, the accuracy are :				
	31.5	Hz	reading ±1.5 dB		
	63	Hz	reading ±1.0 dB		
	125	Hz	reading ±1.0 dB		
	250	Hz	reading ±1.0 dB		
	500	Hz	reading ±1.0 dB		
	1 K	Hz	reading ±0.7 dB		
	2 K	Hz	reading ±1.0 dB		
	4 K	Hz	reading ±1.0 dB		
	8 K	Hz	reading +1.5 dB, -2.5dB		
	12.5 K	Hz	reading +2.0 dB, -5.0dB		
	16 K	Hz	reading +2.5 dB, -16.0dB		
	Remark : The above spec. are tested under the environment RF Field Strength less				
	than 3 V/M & frequency less than 30				
		MHz only.			
Frequency	Characteris	tics of	A & C.		
Weighting					
Network		A weighting:			
	The characteristic is simulated as "Huma				
Ear Listening" response. Typical, if mal the environmental sound level					
	I	ent, aiv	vays select to A		
	weighting.				
	C weighting	C weighting			
	The characteristic is near the "FLAT"				
response. Typical, it is suitable for					
	checking the noise of machinery (Q.C.				
	check) & ki	check) & knowing the sound pressure			
level of the tested equipment.					

6				
Peak hold	To keep the peak (max.) measurement value.			
Time	Fast - t= 125 ms			
weighting (Fast & Slow)	* "Fast" range is simulated the human ear response time weighting.			
(1 dat & slow)	Slow - t = 1 Sec.			
	* "Slow" range is easy to get the average			
Dames calcutan	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,			
Frequency	with over & under range indicating.			
Microphone	31.5 to 16 KHz. Electric condenser microphone.			
type	·			
Microphone	Out size, 12.7 mm DIA. (1/2 inch).			
size Calibration VR	Build in external calibration VR, easy to			
	calibrate on 94 dB level by screw driver.			
	* Calibrated via external SOUND			
Calibrator	CALIBRATOR (SC-941, optional). B & K (Bruel & kjaer), Multifunction			
Calibrator	Acoustic Calibrator 4226.			
Datalogger	Auto 1,2,5,10,30,60,120,300,600,			
Sampling Time	1800,3600 seconds. @ If set to 1			
Setting range	second,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	SD memory card. 1 GB to 16 GB.			
Advanced	* 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			
Over Indication	* SD memory card Format Show " ".			
Data Hold	Freeze the display reading.			
Memory Recall	Maximum & Minimum value.			
Sampling Time	Approx. 1 second.			
of Display	DC 222/LICE DC computer interface			
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			
Danier off	USB-01 will get the USB plug.			
Power off	Auto shut off (approx. 10 minutes) saves battery life or manual off by push button.			
Operating	0 to 50 ℃.			
Temperature				
Operating	Less than 85% R.H.			
Humidity Power Supply	* Alkaline or heavy duty DC 1.5 V battery.			
one. Supply	(UM3, AA) x 6 PCs, or equivalent.			
	* DC 9V adapter input. (AC/DC power			
Power Current	adapter is optional).			
Power Current	Normal operation (w/o SD card save data and LCD Backlight is OFF):			
	Approx. DC 12 mA.			
	When SD card save the data but and			
	LCD Backlight is OFF) :			
	Approx. DC 31 mA. * AC/DC power adapter is optional			
	* AC/DC power adapter is optional. consumption will increase approx.			
	8 mA.			
Weight	320 g/0.70 LBS.(without battery)			
Dimension	245 x 68 x 45 mm. (9.6 x 2.7x 1.8 inch).			
Accessories	* Instruction manual1.P.C			
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			
	* USB cable, USB-01.			
	* RS232 cable, UPCB-02.			
1	* Data Acquisition software,			
	SW-U801-WIN.			
	* AC to DC 9V adapter.			

PATENT CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 TAIWAN : M 358970 M 359043
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.