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*











The Art of Measurement

SD Card real time data logger

SOUND LEVEL METER

Model: SL-4033SD

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

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Circuit	Custom one-chip of microprocessor LSI circuit.			
Display	LCD size : 52 mm x 38 mm			
Display				
Manauramant	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			
(23 ± 3 ()	class 1			
	Under 94 dB input signal, the accuracy are:			
	31.5Hz ± 2.0 dB 63 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			
	Remark:			
	The above spec. are tested under the			
environment RF Field Strength le				
	than 3 V/M & frequency less than 30			
	MHz only.			
Frequency	Characteristics of A & C.			
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.			
	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.			
	·			

Peak hold	value.	the peak (max.) measurement		
Time		= 200 ms		
weighting		range is simulated the human ear		
(Fast & Slow)	respo	nse time weighting.		
	Slow - t = 500 ms			
		" range is easy to get the average		
	values of vibration sound level.			
Range selector	Auto range: 30 to 130 dB. Manual range:			
	3 rang	ge, 30 to 80 dB, 50 to 100 dB,		
	80 to	130 dB, 50 dB on each step,		
	with over & under range indicating. 31.5 to 16 KHz.			
Frequency				
Microphone	Electric (condenser microphone.		
type Microphone	Out cizo	, 12.7 mm DIA. (1/2 inch).		
size	Out Size	, 12.7 IIIII DIA. (1/2 IIICII).		
Calibration VR	Build in external calibration VR, easy to			
Calibration VIC	calibrate on 94 dB level by screw driver. * Calibrated via external SOUND			
	CALIBRATOR (SC-941, optional).			
Calibrator	B & K (Bruel & kjaer), Multifunction			
Cambrator	Acoustic Calibrator 4226.			
Datalogger	Auto	1 second to 3600 seconds		
Sampling Time	Auto	@ Sampling time can set to 1 second,		
Setting range		but memory data may loss.		
James Turige	Manual	Push the data logger button		
	landa	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				
setting		* Set clock time (Year/Month/Date,		
Security	Hour/Minute/ Second) * Decimal point of SD card setting			
	* Decimal point of SD card setting			
	* Auto power OFF management			
	* Set beep Sound ON/OFF			
	* Set sampling time			
O T di ti	* SD memory card Format			
Over Indication		Show " ".		
Data Hold		he 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			
	manual off by push button.			
Operating	0 to 50 ℃.			
Temperature		0.0000.		
Operating	Less than 85% R.H.			
Humidity	Less triair 03 /0 K.H.			
Power Supply	* Alkalir	*.Alkaline or heavy duty DC 1.5 V battery		
. Svvci Supply				
	(UM3, AA) x 6 PCs, or equivalent. *.DC 9V adapter input. (AC/DC power			
	adapter is optional).			
Downer Comment				
rower Current	ver 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 manual1 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.		Laule, UPCD-UZ.		
		acquisition software,		
		DC 9V adapter		
		arrying case, CA-05A.		

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* Appearance and specifications listed in this brochure are subject to change without notice. TAIWAN: M 358970 M 359043