SD Card real time data recorder

INTEGRATING SOUND LEVEL METER class 1

Model : SL-4036SD   *ISO-9001, CE, IEC1010*

52.0 A SPL dB FAST AUTO

SD Card Data Recorder , IEC61672 CLASS1
INTEGRATING
SOUND LEVEL METER

Lutron   SL-4036SD

Lutron

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The Art of Measurement

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FEATURES

* Real time recorder, save the data into the SD memory card and can be downloaded to the Excel, extra softwareis no need.
* Frequency and Time weighting are designed to meet IEC 61672 class 1, IEC 60804 type 1, ANSI S 1.43 type 1.
* Measuuring modes : SPL, Leq.
* Auto range : 30 - 130 dB.
* Tow Manual range : 30 - 80 dB, 80 - 130 dB.
* A / C frequency weighting.
* Fast / Slow Time weighting.
* Dot matric LCD with backlight.
* RS232/USB PC COMPUTER interface.
* Optional wind shield ball, SB-01.
* Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
* SD card capacity : 1 GB to 16 GB.
* Optional acqustion softweres, SW-US801-WIN, SW-E802
* Microcomputer circuit, high accuracy.
* Patented.

Specifications

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 51 mm x 30 mm LCD with green backlight (ON/OFF).
Measurement Type	**SPL** : Sound pressure level **Leq** : Equivalent Continuous Noise Level
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 ℃)	Characteristics of " A "," C " frequency weighting network meet ANSI S1.4-2014 / IEC 61672 -1 : 2013 class 1 Under 94 dB input signal, the accuracy are :

31.5	Hz	±1.5 dB
63	Hz	±1.0 dB
125	Hz	±1.0 dB
250	Hz	±1.0 dB
500	Hz	±1.0 dB
1 K	Hz	±0.7 dB
2 K	Hz	±1.0 dB
4 K	Hz	±1.0 dB
8 K	Hz	+1.5 dB, -2.5dB
12.5	Hz	+2.0 dB, -5.0dB
16 K	Hz	+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 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. 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.
Time weighting (Fast & Slow)	Fast - t = 125 ms * "Fast" range is simulated the human ear response time weighting. Slow - t = 1 s * "Slow" range is easy to get the average values of vibration sound level. *** Proposal to test FAST & SLOW Function ,Please use the manual range mode**
Data hold	To freeze the measurement value.
Peak hold	To keep the peak (max.) measurement value.

Range selector	*Auto range :*	30 to 130 dB.
	Manual range : 2 range, 30 to 80 dB, 80 to 130 dB, 50 dB on each step, with over & under range indicating.	
Frequency	31.5 to 16,000 Hz.	
Microphone type	Electric condenser microphone.	
Microphone size	Out size, 12.7 mm DIA. (1/2 inch).	
Data error no.	≦ 0.1 % no. Of total saved data typically.	
Calibration VR	Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. * Calibrated via external SOUND CALIBRATOR (SC-942, optional).	
Calibrator	B & K (Bruel & kjaer), MULTIFUNCTION ACOUSTIC CALIBRATOR Type 4226.	
Datalogger Sampling Time Setting range	Auto	1 second to 3600 seconds @ *Sampling time can set to 1 second, 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	SD memory card. 1 GB to 16 GB.	
Advanced setting	* Set clock time (Year/Month/Date,Hour/Minute/ Second) * Set sampling time * Auto power OFF management * Set beep Sound ON/OFF * Decimal point of SD card setting * SD memory card Format * Frequency weighting to A or C setting	
Over Indication	Show " - - - - ".	
Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Sampling Time of Display	Approx. 1 second.	
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.*	
AC output	AC 0.5 Vrms corresponding to each range step. * *Output impedance : 600 ohm.*	
Power off	Auto shut off saves battery life or manual off by push button.	
Operating Temperature	0 to 50 ℃.	
Operating Humidity	Less than 85% R.H.	
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 8.2 mA.* When SD card save the data but and LCD Backlight is OFF) : *Approx. DC 34 mA.* * *If LCD backlight on, the power consumption will increase approx. 6 mA.*	
Weight	323 g/0.71 LB.	
Dimension	245 x 68 x 45 mm. (9.6 x 2.7x 1.8 inch).	
Accessories Included	* Instruction manual... 1 PC * Hard carrying case, CA-06............................ 1 PC	
Optional Accessories	* Sound calibrator (94 dB), SC-941. * Sound calibrator (94/114 dB), SC-942. * Sound wind shield ball, SB-01 * SD Card (4 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.	

Temp | Humidity | Pressure| Differential Pressure| Vacuum| Gases | Particle | Air Flow
Moisture | Dissolved Oxygen | Radiation | Air Quality | Light / Lux| Distance | Vibration

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