SD Card real time data recorder INTEGRATING SOUND LEVEL METER class 1

Model: SL-4036SD

ISO-9001, CE, IEC1010







LUTRON ELECTRONIC

The Art of Measurement

SD Card real time data recorder INTEGRATING SOUND LEVEL METER class 1 Model : SL-4036SD

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 Display Measurement Type Measurement Range Resolution Function	Custom one-chip of microprocessor LSI circuit. LCD size : 51 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Leq : Equivalent Continuous Noise Level 30 - 130 dB.			
Measurement Type Measurement Range Resolution	LCD size : 51 mm x 30 mm LCD with green backlight (ON/OFF). SPL : Sound pressure level Leg : Equivalent Continuous Noise Level 30 - 130 dB. 0.1 dB.			
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Measurement Range Resolution	30 - 130 dB. 0.1 dB.			
Range Resolution	0.1 dB.			
Resolution				
	dB (A & C frequency weighting),			
	Time weighting (Fast, Slow),			
	Peak hold, Data hold			
	Record (Max., Min.).			
Accuracy	Characteristics of " A "," C " frequency			
(23 ±5 ℃)	weighting network meet ANSI S1.4-2014 /			
(20 20 0)	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	Characteristics of A & C.			
Weighting	A weighting :			
Network	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	Fast - t = 125 ms			
	* "Fast" range is simulated the human ear			
(Fast & Slow)				
	values of vibration sound level.			
	* Proposal to test FAST & SLOW Function ,Please use			
	the manual range mode			
	To freeze the measurement value.			
Реак пою	l o keep the peak (max.) measurement value.			
Time weighting (Fast & Slow) Data hold Peak hold	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			

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,			
Frequency	with over & under range indicating. 31.5 to 16,000 Hz.			
Microphone	Electric condenser microphone.			
type				
Microphone	Out size, 12.7 mm DIA. (1/2 inch).			
size				
Data error no. Calibration VR	\leq 0.1 % no. Of total saved data typically. Build in external calibration VR, easy to			
Calibration VR		d Calibration VR, easy to		
		via external SOUND		
		OR (SC-942, optional).		
Calibrator	B & K (Bruel & kjaer), MULTIFUNCTION			
		ALIBRATOR Type 4226.		
Datalogger	Auto 1	second to 3600 seconds		
Sampling Time Setting range	a) Sampling time can set to 1 second,		
		but memory data may loss.		
		ush the data logger button		
		nce will save data one time.		
	a) Set the sampling time to		
		0 second.		
	@) Manual mode, can also select the		
Momony Card	8D marrar -	1 to 99 position (Location) no.		
Memory Card		ard. 1 GB to 16 GB.		
Advanced setting	 Set clock t * Set sampling 	ime (Year/Month/Date,Hour/Minute/ Second)		
setting		OFF management		
	-	ound ON/OFF		
	 Decimal point of SD card setting SD memory card Format 			
	-	weighting to A or C setting		
Over Indication	Show " ".			
Data Hold	Freeze the dis			
Memory Recall	Maximum & M			
Sampling Time	Approx. 1 second.			
of Display				
Data Output	RS 232/USB F	PC computer interface.		
	* Connect the optional RS232 cable			
	UPCB-02 will get the RS232 plug.			
	* Connect the optional USB cable			
		l get the USB plug.		
AC output	AC 0.5 Vrms corresponding to each			
	range step.			
Power off		dance : 600 ohm.		
Fower on	Auto shut off saves battery life or manual off by push button.			
Operating	0 to 50 °C.			
Temperature				
Operating	Less than 85% R.H.			
Humidity				
Power Supply		heavy duty DC 1.5 V battery		
	(UM3, AA) x 6 PCs, or equivalent.			
		pter input. (AC/DC power		
Power Current	adapter is o	optional). ion (w/o SD card save		
Power Current				
	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			
Accessories Included		* Instruction manual 1 PC		
Optional	Hard carrying case, CA-06 1 PC Sound calibrator (94 dB), SC-941.			
Accessories		prator (94/114 dB), SC-942.		
1000300103	* Sound wind	d shield ball, SB-01		
	* SD Card (4			
	* USB cable,			
		le, UPCB-02. sition software,		
	SW-U801-V * AC to DC 9	WIN.		

 * Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.

* Appearance and specifications listed in this brochure are subject to change without notice.

181018-SL-4036SD