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

SPL 52 dB FAST ENTER EC61672 CLASS! INTEGRATING SOUND LEVEL METER mrc SL-4036SD

Model: SL-4036SD



ISO-9001, CE, IEC1010



Laboratory Equipment Manufacturer www.mrclab.com CE - IONET -

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 Custom one-chip of microprocessor LSI circuit. Display LCD size : 51 mm x 30 mm LCD with green backlight (ON/OFF). Measurement SPL : Sound pressure level Type Leq : Equivalent Continuous Noise Level Measurement 30 - 130 dB. Range 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 "," C " frequency weighting network meet ANSI S1.4-2014 / IEC 6 1672 - 1: 2013 class 1 Under 94 dB input signal, the accuracy are : 31.5 Hz ±11.0 dB 250 Hz ±11.0 dB 250 Hz ±1.0 dB 250 Hz ±1.0 dB 125 Hz ±1.0 dB 2 K Hz ±1.0 dB 125 Hz ±1.0 dB 125 Hz ±1.0 dB 125 Hz ±1.0 dB 125 Hz ±1.0 dB 125 Hz ±1.0 dB 125 Hz ±1.0 dB 125 Hz ±2.0 dB, -5.0dB 12.5 Hz ±2.0 dB, -5.0dB 12.5 Hz ±2.0 dB, -5.0dB 12.5 Hz ±2.0 dB, -5.0dB 12.5 Hz ±2.0 dB, -5.0dB 12.5 Hz ±2.0 dB, -5.0dB 12.6 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. Frequenc	· ·,				
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response. Typical, it is suitable for checking the noise of machinery (Q.C.					
checking the noise of machinery (Q.C.					
level of the tested equipment.					
Time 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. 			
	ast a olow)				
* "Slow" range is easy to get the average					
* Proposal to test FAST & SLOW Function ,Please use					
the manual range mode Data hold To freeze the measurement value.	ata hold				
Peak hold To keep the peak (max.) measurement					
value.					

Range selector	Auto range			
	Manual rai			
	-	2 range, 30 to 80 dB,		
		30 dB, 50 dB on each step,		
Frequency	31.5 to 16,	er & under range indicating.		
Microphone		ndenser microphone.		
type	Liectric co			
Microphone	Out size, 1	2.7 mm DIA. (1/2 inch).		
size				
Data error no.	≦ 0.1 % n	o. Of total saved data typically.		
Calibration VR	Build in ex	ternal calibration VR, easy to		
		n 94 dB level by screw driver.		
	* Calibrated via external SOUND			
		RATOR (SC-942, optional).		
Calibrator		iel & kjaer), MULTIFUNCTION		
5 / /		C CALIBRATOR Type 4226.		
Datalogger	Auto	1 second to 3600 seconds		
Sampling Time		@ Sampling time can set to 1 second,		
Setting range	Manual	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		
Mamaani Cand		1 to 99 position (Location) no.		
Memory Card		y card. 1 GB to 16 GB.		
Advanced		ock time (Year/Month/Date,Hour/Minute/ Second) apling time		
setting		wer OFF management		
		p Sound ON/OFF		
		point of SD card setting		
		nory card Format		
		-		
Over Indication		ncy weighting to A or C setting		
-	Show " ". Freeze the display reading.			
Data Hold				
Memory Recall		& Minimum value.		
Sampling Time	Approx. 1	second.		
of Display	DC 222/110	SP DC computer interface		
Data Output		SB PC computer interface.		
		t the optional RS232 cable 02 will get the RS232 plug.		
		t the optional USB cable		
		1 will get the USB plug.		
AC output		ns corresponding to each		
	TAO 0.5 VII			
AC output	range sten			
	range step * Output in			
	* Output in	npedance : 600 ohm.		
Power off	* Output in Auto shut	npedance : 600 ohm. off saves battery life or		
	* Output in Auto shut	npedance : 600 ohm. off saves battery life or by push button.		
Power off	* Output in Auto shut manual off	npedance : 600 ohm. off saves battery life or by push button.		
Power off Operating	* Output in Auto shut manual off	npedance : 600 ohm. off saves battery life or ' by push button.		
Power off Operating Temperature Operating Humidity	* Output in Auto shut of manual off 0 to 50 ℃.	npedance : 600 ohm. off saves battery life or i by push button.		
Power off Operating Temperature Operating	* Output in Auto shut o manual off 0 to 50 ℃. Less than * Alkaline	npedance : 600 ohm. off saves battery life or by push button. 85% R.H. e or heavy duty DC 1.5 V battery		
Power off Operating Temperature Operating Humidity	* Output in Auto shut o manual off 0 to 50 ℃. Less than * Alkaline	npedance : 600 ohm. off saves battery life or by push button. 85% R.H.		
Power off Operating Temperature Operating Humidity	* Output in Auto shut of manual off 0 to 50 °C. Less than * Alkaline (UM3, * DC 9V	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power		
Power off Operating Temperature Operating Humidity Power Supply	* Output in Auto shut of manual off 0 to 50 ℃. Less than * Alkaline (UM3, * DC 9V adapter	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional).		
Power off Operating Temperature Operating Humidity	* Output in Auto shut of manual off 0 to 50 °C. Less than * Alkaline (UM3, * DC 9V adapter Normal op	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). eration (Wo SD card save		
Power off Operating Temperature Operating Humidity Power Supply	* Output in Auto shut manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal opp data and L	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power ris optional). eration (w/o SD card save CD Backlight is OFF) :		
Power off Operating Temperature Operating Humidity Power Supply	* Output in Auto shut manual off 0 to 50 °C. Less than (UM3, * DC 9V adapter Normal op data and Approx	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). eration (W/o SD card save .CD Backlight is OFF) : .DC 8.2 mA.		
Power off Operating Temperature Operating Humidity Power Supply	* Output in Auto shut manual off 0 to 50 °C. Less than * Alkaline (UM3, * DC 9V adapter Normal op data and L Approx When SD	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power ris optional). eration (w/o SD card save CD Backlight is OFF) :		
Power off Operating Temperature Operating Humidity Power Supply	* Output in Auto shut manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal op data and L Approx When SD	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). eration (w/o SD card save CD Backlight is OFF) : DC 8.2 mA. card save the data but and		
Power off Operating Temperature Operating Humidity Power Supply	* Output in Auto shut manual off 0 to 50 °C. Less than * Alkaline (UM3, * DC 9V adapter Normal op data and L <i>Approx</i> When SD LCD Backl <i>Approx</i> * If <i>LCD</i> .	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). eration (W/o SD card save CD Backlight is OFF) : DC 8.2 mA. card save the data but and light is OFF) : DC 34 mA. backlight on, the power		
Power off Operating Temperature Operating Humidity Power Supply	* Output in Auto shut + manual off 0 to 50 °C - Less than * Alkaline (UM3, * DC 9V adapter Normal op data and L Approx When SD LCD Backl Approx * If LCD - consum	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). eration (w/o SD card save CD Backlight is OFF) : . DC 8.2 mA. card save the data but and light is OFF) : . DC 34 mA.		
Power off Operating Temperature Operating Humidity Power Supply Power Current	* Output in Auto shut manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal op- data and L Approx When SD LCD Backl Approx * If LCD.	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. a or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). eration (w/o SD card save CD Backlight is OFF) : .DC 8.2 mA. card save the data but and light is OFF) : .DC 34 mA. backlight on, the power nption will increase approx.		
Power off Operating Operating Humidity Power Supply Power Current Weight	* Output in Auto shut manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal op- data and L Approx When SD LCD Backl Approx * If LCD consum 6 mA. 323 g/0.71	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). eration (W/o SD card save CD Backlight is OFF) : . DC 8.2 mA. card save the data but and light is OFF) : . DC 34 mA. backlight on, the power rption will increase approx. LB.		
Power off Operating Temperature Operating Humidity Power Supply Power Current	* Output in Auto shut 4 manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal op data and L Approx When SD LCD Backl Approx * If LCD . consun 6 mA. 323 g/0.71 245 x 68 x	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). eration (wo SD card save CD Backlight is OFF) : .DC 8.2 mA. card save the data but and light is OFF) : .DC 34 mA. backlight on, the power rption will increase approx. LB. 45 mm.		
Power off Operating Operating Humidity Power Supply Power Current Weight	* Output in Auto shut manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal op- data and L Approx When SD LCD Backl Approx * If LCD consun 6 mA. 323 g/0.71 245 x 68 x (9.6 x 2.7)	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). eration (W/o SD card save CD Backlight is OFF) : . DC 8.2 mA. card save the data but and light is OFF) : . DC 34 mA. backlight on, the power rption will increase approx. LB.		
Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension	* Output in Auto shut manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal op- data and L Approx When SD LCD Backl Approx * If LCD . consun 6 mA. 323 g/0.71 245 x 68 x (9 6 x 2.7) * Instruct	npedance : 600 ohm. off saves battery life or 'by push button. 85% R.H. a or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power ris optional). eration (wo SD card save CD Backlight is OFF) : . DC 32. mA. card save the data but and light is OFF) : . DC 34 mA. backlight on, the power nption will increase approx. LB. 45 mm. x 1.8 inch).		
Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included Optional	* Output in Auto shut manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal op data and L <u>Approx</u> When SD LCD Backl <u>Approx</u> * If LCD . adapter 6 mA. 323 g/0.71 245 x 68 x (9.6 x 2.77 * Instruct * Hard ca * Sound	npedance : 600 ohm. off saves battery life or by push button. 85% R.H. ac or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power ris optional). eration (w/o SD card save CD Backlight is OFF) : .DC 3.2 mA. card save the data but and light is OFF) : .DC 34 mA. backlight on, the power nption will increase approx. LB. 45 mm. x 1.8 inch). ion manual. 1 PC arrying case, CA-06. arbit (94 dB), SC-941.		
Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included	* Output in Auto shut manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal op- data and L Approx When SD LCD Backl Approx * If LCD consum 6 mA. 323 g/0.71 245 x 68 x (9.6 x 2.7) * Instruct * Hard cc * Sound * Sound	npedance : 600 ohm. off saves battery life or by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power ris optional). eration (w/o SD card save CD Backlight is OFF) : .DC 34 mA. backlight on, the power aption will increase approx. LB. 45 mm. 4.1 Binch). tion manual		
Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included Optional	* Output in Auto shut + manual off 0 to 50 °C - Less than * Alkaline (UM3, * DC 9V adapter Normal op- data and L Approx When SD LCD Backl Approx When SD LCD Backl Approx * If LCD consum 6 mA. 323 g/0.71 245 x 68 x (9.6 x 2.7) * Instruct + Hard ca * Sound * Sound	npedance : 600 ohm. off saves battery life or by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power ris optional). eration (Wo SD card save CD Backlight is OFF) : .DC 8.2 mA. .DC 8.2 mA. .DC 3.4 mA. backlight on, the power nption will increase approx. LB. 45 mm. x 1.8 inch). ion manual		
Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included Optional	* Output in Auto shut (manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal op data and L Approx When SD LCD Backl Approx * If LCD sconsun 6 mA. 323 g/0.71 * Instruct * Instruct * Sound * Sound * Sound * Sound * Sound	npedance : 600 ohm. off saves battery life or by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power ris optional). eration (wo SD card save CD Backlight is OFF) : DC 8.2 mA. card save the data but and light is OFF) : DC 34 mA. backlight on, the power rption will increase approx. LB. 45 mm. x 1.8 inch). ion manual. 1 PC arrying case, CA-06. 1 PC calibrator (94 dB), SC-941. calibrator (94,114 dB), SC-942. wind shield ball, SB-01 d (4 GB)		
Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included Optional	* Output in Auto shut manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal op- data and L Approx When SD LCD Backl Approx * If LCD Sound • mA. 323 g/0.71 245 x 68 x (9.6 x 2.7) * Instruct * Sound * Sound * Sound * Sound * Sound * Sound	npedance : 600 ohm. off saves battery life or by push button. 85% R.H. 85% R.H. ao r heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power ris optional). eration (w/o SD card save CD Backlight is OFF) : .DC 8.2 mA. card save the data but and light is OFF) : .DC 34 mA. backlight on, the power nption will increase approx. LB. 45 mm. 45 mm. x 1.8 inch). calibrator (94/114 dB), SC-941. calibrator (94/114 dB), SC-942. wind shield ball, SB-01 d (4 GB) biel, USE-01.		
Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included Optional	* Output in Auto shut (manual off 0 to 50 °C. Less than * Alkaline (UM3, * DC 9V adapter Normal op data and L Approx When SD LCD Backl Approx When SD LCD Backl Approx * If LCD. consum 6 mA. 323 g/0.71 245 x 68 x (9.6 x 2.7) * Instruct * Sound * Sound	npedance : 600 ohm. off saves battery life or by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). eration (Wo SD card save CD Backlight is OFF) : .DC 8.2 mA. .card save the data but and light is OFF) : .DC 3.4 mA. backlight on, the power nption will increase approx. LB. 45 mm. x 1.8 inch). ion manual. 1 PC calibrator (94 dB), SC-941. calibrator (94 dB), SC-942. wind shield ball, SB-01 d (4 GB) bable, USB-01. cable, UPCB-02.		
Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included Optional	* Output in Auto shut 4 manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal op data and L Approx When SD LCD Backl Approx * If LCD consun 6 mA. 323 g/0.71 * Instruct * Sound * Sound	npedance : 600 ohm. off saves battery life or by push button. 85% R.H. 85% R.H. ao r heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power ris optional). eration (w/o SD card save CD Backlight is OFF) : .DC 8.2 mA. card save the data but and light is OFF) : .DC 34 mA. backlight on, the power nption will increase approx. LB. 45 mm. 45 mm. x 1.8 inch). calibrator (94/114 dB), SC-941. calibrator (94/114 dB), SC-942. wind shield ball, SB-01 d (4 G B) biele, USE-01.		
Power off Operating Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories Included Optional	* Output in Auto shut (manual off 0 to 50 °C . Less than * Alkaline (UM3, * DC 9V adapter Normal opp data and L Approx When SD LCD Backl Approx * If LCD . LCD Backl Approx * If LCD . Sound * Sound * Sound	npedance : 600 ohm. off saves battery life or by push button. 85% R.H. e or heavy duty DC 1.5 V battery AA) x 6 PCs, or equivalent. adapter input. (AC/DC power r is optional). eration (wo SD card save CD Backlight is OFF) : DC 8.2 mA. card save the data but and light is OFF) : DC 3.4 mA. backlight on, the power rption will increase approx. LB. 45 mm. x 1.8 inch). ion manual		

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