SD card real time data recorder 4 to 20 mA output

SOUND LEVEL DATA RECORDER

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The Art of Measurement

SD card real time data recorder 4 to 20 mA output

SOUND LEVEL DATA RECORDER

Model: MSL-388SD

FEA	ιTU	RES
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* Frequency and Time weighting are designed to meet IEC 61672 cla	ss 2.
* A & C weighting networks comply with standards.	
* LCD is dot-matrix with backlight and easy reading.	
* Data-logger and Sound level meter.	
* 0.5" standard microphone head.	
* Time weighting (Fast & Slow) dynamic characteristic modes.	
* Condenser microphone for high accuracy & long-term stability.	. 1
* Memory function to store the Max. & Min. value.	V
* Hold functions.	. 4
* Real time Datalogger	W
Records device of an external	
memory device (SD memory card) ,Real time Datalogger, it Built-in	
Clock and Calendar, real time data recorder, sampling time set	
from 5,10,30,60,120,300,600,1800,3600 seconds.	
* Manual datalogger is available (set the sampling	L. 1
time to 0 second).	
* Innovation and easy operation, computer is not need to	11.
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 download 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.	
* Can default auto power off or manual power off.	~
* 4-20 mA analog output.	
* Microcomputer circuit, high accuracy.	- 40
* Power by UM4/AAA (1.5 V) x 6 batteries or DC 9V adapter.	VU
* RS232/USB PC COMPUTER interface.	, -
* Hanny duty 0 comment haveing and	

SPECIFICATIONS

* Heavy duty & compact housing case.

Circuit	Custom one-chip of microprocessor LSI		
	circuit.		
Display	LCD size: 50 mm x 30 mm LCD with green backlight (ON/OFF).		
Measurement Type	SPL : Sound pressure level		
Measurement Range	SPL: 30-80,50-100,80-130 , Auto 30 - 130 dB.		
Resolution	0.1 dB.		
Function	dB (A & C frequency weighting), Time weighting (Fast, Slow), Data hold Record (Max., Min.).		
Accuracy	Characteristics of " A " frequency weighting		
(23 ± 5 °C)	network meet IEC 61672 class 2.		
(23 = 3 - 3)	Under 94 dB input signal, the accuracy		
	are:		
	TANN OF COURT AND		
	31.5 Hz ± 3.5 dB		
	63 Hz ± 2.5 dB		
	125 Hz ± 2.0 dB		
	250 Hz ± 1.9 dB		
	500 Hz ± 1.9 dB		
	1 K Hz ± 1.4 dB		
	2 K Hz ± 2.6 dB		
	4 K Hz ± 3.6 dB		
	8 K Hz ± 5.6 dB		
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.		
Data hold	To freeze the measurement value.		

Time	Fast - t = 125 ms		
weighting	* "Fast" range is simulated the human ear		
(FAST &SLOW)		se time weighting.	
1111	Slow - $t = 1$ s		
	* "Slow" range is easy to get the average		
WWW. ac	values of vibration sound level.		
Function selector	range :		
SPL	30-80	dB, 50-100dB, 80-130dB	
		range : 30 ~ 130dB.	
Frequency Microphone type	31.5 to 8,0		
Microphone size		ndenser microphone.	
Calibration VR	Out size, 12.7 mm DIA. (1/2 inch). Build in external calibration (key), easy to		
Calibration VK		on 94 dB level by key button.	
	* Calibrated via external SOUND		
		ATOR (SC-941, SC-942, optional).	
Calibrator		uel & kjaer), MULTIFUNCTION	
WW		CALIBRATOR Type 4226.	
Datalogger	Auto	5,10,30,60,120,300,600,1800,	
Sampling Time	1	3600 seconds	
Setting range	10	@ Sampling time can set to 1 second,	
av av		but memory data may loss.	
	Manual	Push the data logger button	
	W. M.	once will save data one time.	
	TAN	@ Set the sampling time to	
W		0 second.	
Memory device		nemory device (AC Adapter only):	
N. C.		ory card. 1 GB to 16 GB.	
Advanced	* Set cloc		
setting		Ionth/Date,Hour/Minute/ Second)	
		npling time	
	* Auto po	wer OFF management	
		p Sound ON/OFF	
		point of SD card setting	
Over Indication		nory card Format	
Over Indication Data Hold	Show "		
Memory Recall		e display reading. & Minimum value.	
Sampling Time	Approx. 1	second.	
of Display Data Output	DC 222/110	BB PC computer interface.	
Data Output		t the optional RS232 cable, UPCB-02 will	
	7 7 7 7	RS232 plug.	
		t the optional USB cable, USB-01 will get	
	the USE		
Power off		off saves battery life or manual off by	
1 Over on	push butto		
Operating	0 to 50 °C		
Temperature	0 10 50 0	W. 11001.	
Operating	Less than	85% R.H.	
Humidity			
Power Supply	* Alkaline	or heavy duty DC 1.5 V battery	
-1100 X.C		AAA) x 6 PCs, or equivalent.	
		dapter input. (AC/DC power	
. 1100 1.		is optional).	
Power Current	adapter		
Power Current	adapter Normal op	is optional).	
Power Current	adapter Normal op LCD Backl Approx.	is optional). eration (w/o SD card save data and ight is OFF): DC 16 mA.	
Power Current	adapter Normal op LCD Backl Approx.	is optional). eration (w/o SD card save data and ight is OFF) :	
Power Current	adapter Normal op LCD Backl Approx. When SD is OFF):	is optional). eration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight	
Power Current	adapter Normal op LCD Backl Approx. When SD is OFF): Approx.	is optional). eration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA.	
Power Current	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b	is optional). is optional). ieration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. acklight on, the power consumption will	
MMM.100, MMM.100,	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b increase	is optional). seration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. acklight on, the power consumption will approx. DC 8 mA.	
Weight	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b increase 250 g/ 0.5	is optional). Deration (w/o SD card save data and ight is OFF): DC 16 mA. Card save the data but and LCD Backlight DC 16 mA. Cacklight on, the power consumption will approx. DC 8 mA. SELB. (without battery)	
MMM.100, MMM.100,	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b increase 250 g/ 0.5	is optional). eration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. eacklight on, the power consumption will exapprox. DC 8 mA. 15 LB. (without battery) 32 mm.	
Weight Dimension	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b increase 250 g/ 0.5 132 x 80 > (5.2 x 3.1	is optional). is optional). ieration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. acklight on, the power consumption will approx. DC 8 mA. is LB. (without battery) 3 22 mm. x 1.3 inch).	
Weight Dimension Accessories	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b increase 250 g/ 0.5 132 x 80 > (5.2 x 3.1 * Instructi	is optional). is optional). ieration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. acklight on, the power consumption will approx. DC 8 mA. is LB. (without battery) a 32 mm. x 1.3 inch). on manual	
Weight Dimension	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b increase 250 g/ 0.5 132 x 80 x (5.2 x 3.1 * Instructi * Plug of	is optional). veration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. vacklight on, the power consumption will exprox. DC 8 mA. 15 LB. (without battery) 12 mm. 13 mm. 14 x 1.3 inch). 15 manual	
Weight Dimension Accessories Included	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b increase 250 g/ 0.5 132 x 80 x (5.2 x 3.1 * Instructi * Plug of * Micopho	is optional). veration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. vacklight on, the power consumption will exprox. DC 8 mA. 15 LB. (without battery) 32 mm. x 1.3 inch). on manual	
Weight Dimension Accessories Included Optional	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b increase 250 g/ 0.5 132 x 80 x (5.2 x 3.1 * Instructi * Plug of * Micophe * Sound of	is optional). is optional). ieration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. acklight on, the power consumption will eaprox. DC 8 mA. 5 LB. (without battery) 32 mm. x 1.3 inch). on manual	
Weight Dimension Accessories Included	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b increase 250 g/ 0.5 132 x 80 x (5.2 x 3.1 * Instructi * Plug of * Micophe * Sound c * Sound c	is optional). is optional). ieration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. acklight on, the power consumption will eaprox. DC 8 mA. 5 LB. (without battery) 32 mm. x 1.3 inch). on manual	
Weight Dimension Accessories Included Optional	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b increase 250 g/ 0.5 132 x 80 x (5.2 x 3.1 * Instructi * Plug of, * Micopho * Sound o * Sound o * Sound o	is optional). is optional). ieration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. acklight on, the power consumption will approx. DC 8 mA. is LB. (without battery) 32 mm. x 1.3 inch). on manual	
Weight Dimension Accessories Included Optional	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b increase 250 g/ 0.5 132 x 80 > (5.2 x 3.1 * Instructi * Plug of * Micophot * Sound of * Sound of * Sound of * Sound of * SD Caro	is optional). is optional). ieration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. acklight on, the power consumption will approx. DC 8 mA. is SLB. (without battery) is 32 mm. ix 1.3 inch). ion manual	
Weight Dimension Accessories Included Optional	adapter Normal op LCD Backl Approx. When SD is OFF): Approx. * If LCD b increase 250 g/ 0.5 132 x 80 x (5.2 x 3.1 * Instructi * Plug of * Micophe * Sound c * USB cate	is optional). is optional). ieration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. acklight on, the power consumption will approx. DC 8 mA. S LB. (without battery) 3 22 mm. 3 1.3 inch). on manual	
Weight Dimension Accessories Included Optional	adapter Normal op LCD Backi Approx. When SD is OFF): Approx. * If LCD b increase 250 g/ 0.5 132 x 80 x (5.2 x 3.1 * Instructi * Plug of * Micophe * Sound c	is optional). is optional). ieration (w/o SD card save data and ight is OFF): DC 16 mA. card save the data but and LCD Backlight DC 16 mA. acklight on, the power consumption will approx. DC 8 mA. is SLB. (without battery) is 32 mm. ix 1.3 inch). ion manual	

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