NOISE DOSIMETER

Model: DS-2013SD *ISO-9001, CE, IEC1010*











SD card data recorder

NOISE DOSIMETER

Model: DS-2013SD

FF	ΔΤΙ	IR	F۹

* Personal sound exposure meet IEC 61252
* Frequency and Time weighting are designed to meet
IEC 61672 class 2.
* A & C weighting networks comply with standards.
* LCD is dot-matrix with backlight and easy reading.
* Combination Dose meter, Data-logger and Sound level meter.
* 0.5" standard microphone head.
* Time weighting (Fast & Slow) dynamic characteristic modes.
* Build External calibration VR.
* User-defined measurement configurations. Selectable
Criterion Level,
* Exchange Rate, Threshold, Frequency Weighting, and
Response Time setting.
* Condenser microphone for high accuracy & long-term stability.
* Memory function to store the Max. & Min. value.
* Hold functions.
* Real time Datalogger
Records device of internal memory device (EEPROM) and
an external memory device (SD memory card) ,Real
time 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).
* 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 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.
* Noise Dose % , SPL measurements.
* Microcomputer circuit, high accuracy.
* Power by UM4/AAA (1.5 V) x 6 batteries or DC 9V adapter.
* RS232/USB PC COMPUTER
* Heavy duty & compact housing case.

SPECIFICATIONS

Circuit	Custom one	chin of	microprocessor I SI		
Circuit	Custom one-chip of microprocessor LSI circuit.				
Display	LCD size : 50 mm x 30 mm				
Display	LCD with green backlight (ON/OFF).				
Measurement	SPL : Sound pressure level				
Туре	Dose : test noise exposure				
Measurement	SPL : Auto 30 - 130 dB.				
Range	Dose : 70~130dB				
Resolution	0.1 dB.				
Function	dB (A & C frequency weighting),				
	Time weighting (Fast, Slow),				
	Data hold				
	Record (Ma				
Accuracy	Characteristics of " A " frequency weighting				
(23 ± 5 °C)	network meet IEC 61672-1-2013 class 2.				
	Under 94 dB input signal, the accuracy				
	are:				
	31.5	Hz	reading ±3.0 dB		
	63	Hz	reading ±2.0 dB		
	125	Hz	reading ±1.5 dB		
	250	Hz			
			reading ±1.5 dB		
	500	Hz	reading ±1.5 dB		
	1 K	Hz	reading ±1.0 dB		
	2 K	Hz	reading ±2.0 dB		
	4 K	Hz	reading ±3.0 dB		
	8 K	Hz	reading ±5.0 dB		
	Remark :				
	The above spec. are tested under the environment RF Field Strength less than 3 V/M & frequency less than 30				
	MHz only	'.			
Frequency	Characteris	tics of A	& C.		
Weighting					
Network	A weighting:				
	The characteristic is simulated as "Human				
	Ear Listening" response. Typical, if making				
	the environmental sound level				
	measurement, always select to A weighting.				
	weighting.				
	Cwolabtina				
	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				
	thecky a knowling the sound pressure				

Time				
i .	Fast - t = 125 ms			
weighting	* "Fast" range is simulated the human ear			
(FAST & SLOW)	response time weighting.			
	Slow - t = 1 s			
	* "Slow" range is easy to get the average values of vibration sound level.			
Data hold		e the measurement value.		
Function selector	TO TICCE	the measurement value.		
SPL	Auto ran	ge: 30∼130dB.		
DOSE	Threshold Level (Thr): 70~90dB in 1dB steps.			
	Criterion Level(Crit): 80 · 84 · 85 · 87 · 90dB.			
-		e Rate: 3, 4, 5 or 6 dB		
Frequency		3,000 Hz.		
Microphone type	Electric c	condenser microphone.		
Microphone	Out size.	12.7 mm DIA. (1/2 inch).		
size				
Calibration VR	Build in 6	external calibration VR, easy to		
		on 94 dB level by screw driver.		
		ated via external SOUND		
0 - 111 1		RATOR (SC-942, optional).		
Calibrator		ruel & kjaer), MULTIFUNCTION		
Datalogger	Auto	IC CALIBRATOR Type 4226. 1 second to 3600 seconds		
Sampling Time	Auto	@ Sampling time can set to 1 second,		
Setting range		but memory data may loss.		
	Manual	Push the data logger button		
		once will save data one time.		
		@Set the sampling time to		
		0 second.		
Memory device		memory device :		
		OM can be record 16,000 items.		
		memory device :		
Data orror no		nory card. 1 GB to 16 GB. no. of total saved data typically.		
Data error no. Advanced		ock time (Year / Month / Date, Hour		
setting		ite / Second)		
		ampling time		
		ower OFF management		
	* Set be	ep Sound ON/OFF		
	* Decimal point of SD card setting * SD memory card Format			
		ency weighting to A or C setting		
Over Indication Data Hold	Show " -			
Memory Recall		ne display reading. n & Minimum value.		
Sampling Time		1 second.		
of Display	, ippi oxii	. 5555.14.		
Data Output	RS 232/I	USB PC computer interface.		
	* Conne	ct the optional RS232 cable		
		02 will get the RS232 plug.		
		ct the optional USB cable		
- · · ·		1 will get the USB plug.		
Power off	Auto shut off (Approx. 10 Minutes) saves			
I.				
Operating	battery I	life ormanual off by push button.		
Operating Temperature		life ormanual off by push button.		
Temperature	battery I 0 to 50 °	life ormanual off by push button.		
Temperature Operating	battery I 0 to 50 °	life ormanual off by push button.		
Temperature	battery I 0 to 50 % Less than	life ormanual off by push button.		
Temperature Operating Humidity	battery 0 to 50 °C Less than * Alkaling (UM4	ife ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery, AAA) x 6 PCs, or equivalent.		
Temperature Operating Humidity	battery 0 to 50 °C Less than * Alkaling (UM4	life ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery		
Temperature Operating Humidity Power Supply	battery 0 to 50 % Less than * Alkalin (UM4 * DC 9V	life ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery , AAA) x 6 PCs, or equivalent. adapter input.		
Temperature Operating Humidity	battery 0 to 50 % Less than * Alkalin (UM4 * DC 9V Normal C	ife ormanual off by push button. C. In 85% R.H. e or heavy duty DC 1.5 V battery , AAA) x 6 PCs, or equivalent. adapter input. operation (w/o SD card save		
Temperature Operating Humidity Power Supply	battery I 0 to 50 % Less than * Alkalin (UM4 * DC 9V Normal codata and	ife ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery , AAA) x 6 PCs, or equivalent. adapter input. operation (w/o SD card save		
Temperature Operating Humidity Power Supply	battery I 0 to 50 % Less than * Alkalin (UM4 * DC 9V Normal cdata and Approx	ife ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery , AAA) x 6 PCs, or equivalent. adapter input. operation (w/o SD card save ILCD Backlight is OFF) : x. DC 16 mA.		
Temperature Operating Humidity Power Supply	battery I 0 to 50 % Less that * Alkalin (UM4 * DC 9V Normal c data and Approx When " 5	ife ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery , AAA) x 6 PCs, or equivalent. adapter input. operation (w/o SD card save ILCD Backlight is OFF) : x. DC 16 mA. SD " save the data but and		
Temperature Operating Humidity Power Supply	battery I 0 to 50 % Less than * Alkalin (UM4 * DC 9V Normal of data and Approx When " S LCD Back	ife ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery , AAA) x 6 PCs, or equivalent. adapter input. operation (w/o SD card save I LCD Backlight is OFF) : xx. DC 16 mA. SD "save the data but and klight is OFF) :		
Temperature Operating Humidity Power Supply	battery I 0 to 50 % Less than * Alkalin (UM4 * DC 9V Normal c data and Approx When " S LCD Bacl Approx	ife ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery , AAA) x 6 PCs, or equivalent. adapter input. operation (w/o SD card save ILCD Backlight is OFF) : x. DC 16 mA. SD " save the data but and		
Temperature Operating Humidity Power Supply	* Alkalin (UM4 * DC 9V Normal c data and Approx When "S LCD Back Approx * if LCD consultation of the cons	ife ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery , AAA) x 6 PCs, or equivalent. adapter input. operation (w/o SD card save ILCD Backlight is OFF) : x. DC 16 mA. SD " save the data but and klight is OFF) : x. DC 35 mA. backlight on, the power mption will increase approx.		
Temperature Operating Humidity Power Supply Power Current	battery I 0 to 50 % Less than * Alkalin (UM4 * DC 9V Normal c data and Approx When " S LCD Bacl Approx * if LCD consuit DC 3	ife ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery , AAA) x 6 PCs, or equivalent. adapter input. operation (w/o SD card save I LCD Backlight is OFF) : x. DC 16 mA. SD "save the data but and klight is OFF) : x. DC 35 mA. backlight on, the power mption will increase approx. mA.		
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Temperature Operating Humidity Power Supply Power Current	battery I 0 to 50 % Less than * Alkalin (UM4 * DC 9V Normal of data and Approx When " S LCD Bacl Approx * if LCD consul DC 3 220 g/ 0 132 x 80	ife ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery, AAA) x 6 PCs, or equivalent. adapter input. peration (w/o SD card save I LCD Backlight is OFF) : x. DC 16 mA. SD "save the data but and klight is OFF) : x. DC 35 mA. backlight on, the power mption will increase approx. mA48 LB. (without battery) x 32 mm.		
Temperature Operating Humidity Power Supply Power Current Weight Dimension	battery I 0 to 50 % Less than * Alkalin (UM4 * DC 9V Normal of data and Appro: When " S LCD Back Appro: * if LCD consur DC 3 220 g/ 0 132 x 80 (5.2 x 3	ife ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery, , AAA) x 6 PCs, or equivalent. adapter input. operation (w/o SD card save I LCD Backlight is OFF): x. DC 16 mA. SD " save the data but and klight is OFF): x. DC 35 mA. backlight on, the power mption will increase approx. mA. 48 LB. (without battery) x 32 mm. 1 x 1.3 inch).		
Temperature Operating Humidity Power Supply Power Current Weight Dimension Accessories	battery I 0 to 50 % Less than * Alkalin (UM4 * DC 9V Normal of data and Approx * ICD Back Approx * if LCD consul DC 3 220 g / 0 132 x 80 (5.2 x 3 * Instruce	life ormanual off by push button. C. n 85% R.H. e or heavy duty DC 1.5 V battery, AAA) x 6 PCs, or equivalent. adapter input. operation (w/o SD card save LLCD Backlight is OFF): x. DC 16 mA. SD " save the data but and klight is OFF): x. DC 35 mA. backlight on, the power mption will increase approx. mA. 48 LB. (without battery) x 32 mm. 1. x 1.3 inch). ction manual		
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[|] level of the tested equipment. * Ex:

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