NOISE DOSIMETER

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











SD card data recorder

NOISE DOSIMETER

Model: DS-2013SD

EVILIDE	·c

* 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. * Microeromputer circuit, bida ecuracy.	* Personal sound exposure meet IEC 61252
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	* Can default auto power off or manual power off.
* Microcomputer circuit, high accuracy	* Noise Dose % , SPL measurements.
Microcomputer circuit, riight accuracy.	* Microcomputer circuit, high accuracy.
* Power by UM4/AAA (1.5 V) x 6 batteries or DC 9V adapter.	* Power by UM4/AAA (1.5 V) x 6 batteries or DC 9V adapter.
* RS232/USB PC COMPUTEF1	
* Heavy duty & compact housing case.	* Heavy duty & compact housing case.

SPECIFICATIONS

SPECIFICATIO	7N3			
Circuit	Custom one-chip of microprocessor LSI			
	circuit.			
Display	LCD size : 50 mm x 30 mm			
	LCD with green backlight (ON/OFF).			
Measurement	SPL : Sound pressure level			
Туре	Dose: test noise exposure			
Measurement	SPL: Auto 30 - 130 dB.			
	Dose: 70~130dB			
Range	0.1 dB.			
Resolution				
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.			
· ·	Under 94 dB input signal, the accuracy			
	are:			
	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			
	Remark :			
	The above spec. are tested under the			
	environment RF Field Strength less			
	than 3 V/M & frequency less than 30			
	MHz only.			
F	Characteristics of A & C.			
Frequency	Characteristics of A & C.			
Weighting				
Network	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			
1	level of the tested equipment			

Time	Fast - t = 125 ms			
weighting	* "Fast" range is simulated the human ear			
(FAST & SLOW)	response time weighting. Slow - t = 1 s			
		= 1 S " range is easy to get the average		
		es of vibration sound level.		
Data hold	To freeze	e the measurement value.		
Function selector SPL	Auto ran	ge: 30∼130dB.		
DOSE		d Level (Thr): 70~90dB in 1dB steps.		
3002	Criterion Level(Crit): 80 \ 84 \ 85 \ 90dB.			
_		e Rat ₁ : 3, 4, 5 or 6 dB		
Frequency Microphone		3,000 Hz. condenser microphone.		
type	Out size, 12.7 mm DIA. (1/2 inch).			
Microphone size				
Calibration VR		external calibration VR, easy to		
	calibrate on 94 dB level by screw driver. * Calibrated via external SOUND			
	CALIB	RATOR (SC-942, optional).		
Calibrator		ruel & kjaer), MULTIFUNCTION		
Datalogger	ACOUST	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 :		
	EEPRC	OM can be record 16,000 items.		
		memory device (AC Adapter only) :		
Data error no.		nory card. 1 GB to 16 GB. no. of total saved data typically.		
Advanced		ock time (Year / Month / Date, Hour		
setting		te / Second)		
		ampling time		
		power OFF management		
		ep Sound ON/OFF al point of SD card setting		
		emory card Format		
		ency weighting to A or C setting		
Over Indication	Show " -	".		
Data Hold		ne display reading.		
Memory Recall Sampling Time		n & Minimum value. 1 second.		
	Approx.			
of Display				
of Display Data Output		JSB PC computer interface.		
	* Conne	JSB PC computer interface. ct the optional RS232 cable		
	* Conne UPCB-	JSB PC computer interface. ct the optional RS232 cable 02 will get the RS232 plug.		
	* Conne UPCB- * Conne	JSB PC computer interface. ct the optional RS232 cable 02 will get the RS232 plug. ct the optional USB cable		
	* Conne UPCB- * Conne USB-0	JSB PC computer interface. ct the optional RS232 cable 02 will get the RS232 plug.		
Data Output Power off	* Conne UPCB- * Conne USB-0 Auto shu manual d	JSB PC computer interface. ct the optional RS232 cable 02 will get the RS232 plug. ct the optional USB cable 1 will get the USB plug. it off saves battery life or off by push button.		
Data Output Power off Operating	* Conne UPCB- * Conne USB-0 Auto shu	JSB PC computer interface. ct the optional RS232 cable 02 will get the RS232 plug. ct the optional USB cable 1 will get the USB plug. it off saves battery life or off by push button.		
Power off Operating Temperature	* Conne UPCB- * Conne USB-0 Auto shu manual o	JSB PC computer interface. ct the optional RS232 cable 02 will get the RS232 plug. ct the optional USB cable 1 will get the USB plug. tt off saves battery life or off by push button.		
Data Output Power off Operating	* Conne UPCB- * Conne USB-0 Auto shu manual o	JSB PC computer interface. ct the optional RS232 cable 02 will get the RS232 plug. ct the optional USB cable 1 will get the USB plug. it off saves battery life or off by push button.		
Power off Operating Temperature Operating	* Conne UPCB- * Conne USB-0 Auto shu manual c 0 to 50 °C Less that	JSB PC computer interface. ct the optional RS232 cable 02 will get the RS232 plug. ct the optional USB cable 1 will get the USB plug. tt off saves battery life or off by push button. C. n 85% R.H.		
Power off Operating Temperature Operating Humidity	* Conne UPCB- * Conne USB-0 Auto shu manual 0 0 to 50 % Less that	JSB PC computer interface. ct the optional RS232 cable 02 will get the RS232 plug. ct the optional USB cable 1 will get the USB plug. it off saves battery life or off by push button. C. in 85% R.H. ie or heavy duty DC 1.5 V battery AAA) x 6 PCs. or equivalent.		
Power off Operating Temperature Operating Humidity	* Conne UPCB- * Conne USB-0 Auto shu manual (0 to 50 % Less than * .Alkalin (UM4 * .DC 9V	JSB PC computer interface. ct the optional RS232 cable 02 will get the RS232 plug. ct the optional USB cable 1 will get the USB plug. it off saves battery life or off by push button. C. n 85% R.H. lee or heavy duty DC 1.5 V battery , AAA) x 6 PCs, or equivalent. adapter input. (AC/DC power		
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