NOISE DOSIMETER

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









SD card data recorder

NOISE DOSIMETER

Model: DS-2013SD

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FEATURES
* 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

SPECIFICATION	DNS					
Circuit	Custom one	e-chip of	microprocessor LSI			
	circuit.					
Display	LCD size : 5	50 mm x	30 mm			
			klight (ON/OFF).			
Measurement	SPL : Sound	d pressu	re level			
Туре	Dose: test	noise ex	posure			
Measurement	SPL: Auto	30 - 130	dB.			
Range	Dose : 70∼	-130dB				
Resolution	0.1 dB.					
Function			cy weighting),			
	Time weigh	iting (Fa	st, Slow),			
	Data hold					
	Record (Ma					
Accuracy			A " frequency weighting			
(23 ± 5 °C)			1672-1-2013 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		1			
Frequency	Characteris		& 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.					
	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					

Time		= 125 ms
weighting		range is simulated the human ear
(FAST & SLOW)	Slow - t	nse time weighting.
		range is easy to get the average
		s of vibration sound level.
Data hold		e the measurement value.
Function selector		
SPL		ge: 30∼130dB.
DOSE		d Level (Thr): 70~90dB in 1dB steps.
		Level(Crit): 80 \ 84 \ 85 \ 87 \ 90dB.
Frequency		e Rate: 3, 4, 5 or 6 dB 8,000 Hz.
Microphone		condenser microphone.
type Microphone		12.7 mm DIA. (1/2 inch).
size		
Calibration VR		external calibration VR, easy to on 94 dB level by screw driver.
		ated via external SOUND
		RATOR (SC-942, optional).
Calibrator	B & K (B	ruel & kjaer), MULTIFUNCTION
		IC 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. Push the data logger button
	Manual	once will save data one time.
		@ Set the sampling time to
		0 second.
Memory device	internal i	memory device :
_		OM can be record 16,000 items.
		memory device :
D.1.		mory card. 1 GB to 16 GB.
Data error no.		no. of total saved data typically.
Advanced		ock time (Year / Month / Date,Hour te / Second)
setting		ampling time
		lower OFF management
		ep Sound ON/OFF
		al point of SD card setting
	* SD me	mory card Format
		ency weighting to A or C setting
Over Indication	Show " -	
Data Hold		ne display reading.
Memory Recall		n & Minimum value.
Sampling Limo	Annrov	1 second
Sampling Time of Display	Approx.	1 second.
Sampling Time of Display Data Output		1 second. JSB PC computer interface.
of Display	RS 232/I	
of Display	RS 232/V * Conne UPCB-	USB PC computer interface. ct the optional RS232 cable 02 will get the RS232 plug.
of Display	RS 232/V * Conne UPCB- * Conne	USB PC computer interface. ct the optional RS232 cable 02 will get the RS232 plug. ct the optional USB cable
of Display Data Output	RS 232/V * Conne UPCB- * Conne USB-0	USB 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.
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