Compact size + data logger

NOISE DOSIMETER

ISO-9001, CE, IEC1010 Model: DS-9200









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Model : DS-9200

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* 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.				
* Combination Dose meter, Data-logger and Sound level meter.				
* 0.5" standard microphone head.				
* Time weighting (Fast & Slow) dynamic characteristic modes.				
* Build Internal calibration .				
* 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.				
* 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 3 batteries .				
* RS232/USB PC COMPUTER interface.				
* Heavy duty & compact housing case.				

SPECIFICATIO				
Circuit	Custom one-chip of microprocessor LSI circuit.			
Display	LCD size: 35 x 30 mm.			
N4	LCD with green backlight (ON/OFF).			
Measurement	SPL : Sound pressure level			
Type	Dose: test noise exprosure			
Measurement -	SPL: Auto 35 to 130 dB.			
Range	Dose: 70 to 130dB			
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 network			
(23 ± 5 °C)	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.			
Frequency	Characteristics of A & C.			
Weighting	A weighting:			
Network	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.			
	level of the tested equipment.			

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Time	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	To freeze the measurement value.	
Function selector	Auto range: 35 to130dB.	
SPL	Threshold Level(Thr): 70 to 90dB in 1dB steps.	
DOSE	Criterion Level(Crit): 80 \ 84 \ 85 \ 90dB.	
	Exchange Rate: 3, 4, 5 or 6 dB	
Frequency	31.5 to 8,000 Hz.	
Microphone	Electric condenser microphone.	
type		
Microphone	Out size, 12.7 mm DIA. (1/2 inch).	
Calibration VR	Build in external calibration VR, easy to calibrate on 94	
	dB level by screw driver.	
	* Calibrated via external SOUND CALIBRATOR	
	(SC-941, SC-942, optional).	
Calibrator	B & K (Bruel & kjaer), MULTIFUNCTION ACOUSTIC	
	CALIBRATOR Type 4226.	
Advanced	* Set clock time (Year/Month/Date,Hour/Minute/ Second)	
setting	* Set sampling time	
joettii.ig	* Auto power OFF management	
	* Set Criterion level in dB	
	* Set Threshold in dB	
	* Set Exchange rate in dB	
	* Check Memory space.	
	* Set Clear Memory	
Over Indication	Show " ".	
Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Sampling Time	Approx. 1 second.	
of Display		
Data Output	RS 232/USB PC computer interface.	
	* Connect the optional RS232 cable, UPCB-02 will get	
	the RS232 plug.	
	* Connect the optional USB cable, USB-01 will get the	
	USB plug.	
Power off	Auto shut off saves battery life or manual off by push	
	button.	
Operating	0 to 50 ℃.	
Temperature		
Operating	Less than 85% R.H.	
Humidity		
Power Supply	* Alkaline or heavy duty DC 1.5 V battery	
	(UM4, AAA) x 3 PCs, or equivalent.	
Power Current	Normal operation :	
. Swer Surrent	Approx. DC 8 mA.	
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	* Af LCD backlight on, the power	
	consumption will increase approx.	
MA Lade 2	DC 10 mA.	
Weight	250 g/ 0.55 LB. (without battery)	
Dimension	HWD 116 x 45 x 20 mm (4.6 x 1.8 x 1.2 inch).	
Accessories	* Instruction manual1 PC	
Included	* Soft carrying case, CA-52A 1 PC	
	* Micophone 1 PC	
	* Clip 1 PC	
Optional	* Sound calibrator (94 dB), SC-941.	
Accessories	* Sound calibrator (94/114 dB), SC-942.	
	* USB cable, USB-01.	
	* RS232 cable, UPCB-02.	
	* Data Acquisition software, SW-E2005	
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