Compact size + data logger

NOISE DOSIMETER

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









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Model : DS-9200

			FS

* 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.					

0' ''	0 1 11 6 1 101 11					
Circuit	Custom one-chip of microprocessor LSI circuit.					
Display	LCD size : 35 x 30 mm.					
	LCD with green backlight (ON/OFF).					
Measurement	SPL : Sound pressure level					
Туре	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					

	<u></u>
Time	Fast - t = 125 ms
weighting	* "Fast" range is simulated the human ear
(Fast & Slow)	response time weighting.
	Slow - $t = 1 \text{ s}$
	* "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	0.1.1.407
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
0 111 1	(SC-941, SC-942, optional).
Calibrator	B & K (Bruel & kjaer), MULTIFUNCTION ACOUSTIC
A di tamana di	CALIBRATOR Type 4226.
Advanced	* Set clock time (Year/Month/Date,Hour/Minute/ Second)
setting	* Set sampling time
	* Auto power OFF management
	* Set Criterion level in dB
	* Set Threshold in dB
	* Set Exchange rate in dB
	* Check Memory space.
Ouga Indication	* Set Clear Memory
Over Indication	Show " ".
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time	Approx. 1 second.
of Display	DC 222/UCB DC computer interface
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
l ower on	button.
Operating	0 to 50 °C.
Temperature	0 10 30 C.
Operating	Less than 85% R.H.
Humidity	Leas than 60% Kiri.
Power Supply	* Alkaline or heavy duty DC 1.5 V battery
526613	(UM4, AAA) x 3 PCs, or equivalent.
Power Current	Normal operation :
	Approx. DC 8 mA.
	* If LCD backlight on, the power
	consumption will increase approx.
	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 manual
Included	* Soft carrying case, CA-05A 1 PC
	* Micophone 1 PC
	* Clip
Optional	* Sound calibrator (94 dB), SC-941.
Accessories	* Sound calibrator (94/114 dB), SC-942.
	* Sound wind shield ball, SB-01
	* USB cable, USB-01.
	* RS232 cable, UPCB-02.
	* Data Acquisition software,
	* SW-E2005.
out notice.	1609-DS9200

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