SLM 109

NEED

Excessive Noise is known to be harmful and as such Noise was explicitly included as a Pollutant to be controlled under the Environment Protection Act in February 2000. The Central Pollution Control Board (CPCB) has notified an ambient noise standard in June 2001. SLM 109 Sound Level Meter dully meets the requirements for compliance testing and other applications. SLM109 is a precision grade sound level meter ideal for environmental applications.

APPLICATION

SLM109 is a Class 1 integrating sound level meter. It complies with the IEC616 72 as well a ANSI S 1.4 standards. The instrument features an industrially designed housing and offers a high level of comfort and style.

OPERATION

30 dB to 140 dB (Expandable to 160 db by using a ¼ inch microphone) Dynamic range of 100 dB and does not require range selection. It can measure three parameters simultaneously with the A, C, and Z frequency weightings and with Fast, Slow, and Impulse time weightings. The integration time for Leq, Ln and other integral so und quantities can be programmed from 1s to 24 hour.The SLM 109 is the ideal choice for performing many kinds of noise measurement tasks, for example, in environmental noise, vehicle noise, industrial application, etc – specially where Class 1 accuracy is required.

FEATURES

- Compliant with IEC61672 and ANSI S 1.4 (Class 1)
- Simultaneous measurement of A, C, Z frequency weightings
- Simultaneous measure ment with Fast, Slow, and Impulse time weightings.
- Can also measure Peak
- Displays Lp, Leq, Ln, Lmax, Lmin, Peak, RMS, SD
- Programmable Integration time from 1s to 24 hrs
- 4 GB memory and RS 32 PC interface

Envirotech

SLM 109

SPECIFICATION

Standard	IEC 61672 Class 1, IEC 60651 Class 1, and IEC 60804 Class 1 ANSI S 1.4 Class 1 and ANSI S 1.43 Class 1
Measurement range	30 dB to 140 dB (Expandable to 160 db by using a ¼ inch microphone) Dynamic range of 100 dB
Accuracy and resolution	Accuracy of ± 1.0 dB Resolution of 0.1 dB
Frequency range	10 Hz – 20 kHz
Measurement functions	Sound Pressure Level (SPL), LEQ, LN, PEAK, MAX, MIN, RMS, SD Simultaneous measurement of three profiles with independent sets of filters and detector time constants
Frequency weighting	A, C, Z – can be measured in parallel
Time Weighting	Fast, Slow, Impulse – can be measured in parallel
Integration time	Programmable (1s to 24h)
Octave filter	1/1 octave at 5 points of frequency: 31.5 Hz, 63 Hz, 125 Hz, 250 Hz, 500 Hz
Sampling frequency	48 kHz

1 Year Warranty

*Specifications are subject to change without any prior notification.

Envirotech

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LCD display	160x160 mm LCD, with backlight. Can display the measurement with 0.1 dB resolution
Analysis rate	64 times per second
Storage	Inbuilt 4GB storage through a Micro SD card
Export data	Use adapter (Micro SD to SD card sets), or directly connect the computer to read the memory card data files; RS 232 interface
Post processing software	Comes with a processing software to read the stored data and generate reports
Alarm	Adjustable over 30-130dB range. The power light will turn red when the measurement value is larger than or equal to the alarm value set
Timer	In built timer with current date and time displayed on the main screen. Also has an auto-power off mode that can be set manu-ally
Power	4*1.5V AA alkaline batteries, sustainable use of more than 18 hours. Includes a low battery indicator. Rechargeable battery option available It can also run on an external 7-14V DC power adapter

1
Year
Warranty

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Calibration	14 dB external caliAuto calibration using 94 dB and 1bra-tors
Size	300 x 70 x 36 mm
Weight	About 620g, including batteries
Standard accessories	Carrying case and windscreen (included) Calibrator, tripod stand and spare microphone (available separately)
Warranty	One year

1
Year
Warranty

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