

DATALOGGING SOUND LEVEL METER

The datalogging Sound Level Meter is a Type 1 accuracy (Precision grade) instrument conforming to IS 9779:1981, with Calibration traceable to National Physical Laboratory, New Delhi. The special feature of this meter is that it can store upto 128K readings in its memory. The time interval between these readings may be set by the user between 0.025 seconds and 9999

seconds. Thus this meter is used for continuous datalogging of Sound levels and subsequent downloading to a PC. Software entitled DL03 for downloading the files from the instrument, saving these, carrying out a large number of statistical computations, observing and printing dB v/s time graphs or dB v/s frequency* graphs suitable for MS Windows is supplied with the instrument.

Features of the 2001:

- India's first and only microprocessor based data logging Sound Level Meter.
- Designed as per IS:9779- 1981, type 1 accuracy.
- Computed parameters: SPL, Lmax, Lmin, Leq, SEL, Elapsed Duration, Ln.
- Measurement ranges 34- 134 dB in three overlapping ranges.
- Frequency weighting A, C & Linear as per IS9779 requirements.
- Time weighting Slow, Fast & Impulse as per IS9779 Type 1 requirements.
- 0.1 dB resolution.
- Storage of upto 128,000 readings.
- Internal clock with calendar.
- Logging intervals from 25ms to 9999 sec.
- Self-test mode & RAM formatting.
- Serial port connectivity via RS 232 port.
- PC based software for post processing of dB vs time and dB vs frequency.
- Menu driven software with only 6 keys.
- 12 bit A/D converter.
- Internal rechargeable NiCd batteries.
- Robust aluminium die-cast body.
- Battery charge level indication.
- Removable microphone, which can be remotely connected with cable.



SPECIFICATIONS

Standards	:	Designed as per IS:9779- 1981, Type 1
Measuring Range	:	34- 134 dB
Microphone	:	1/4" Electret Condenser
Calibration	:	Factory calibrated, Field calibration by Acoustic calibrator 3022. Calibration traceable to NPL.
Detector	:	True RMS
Clock	:	Real time with calendar
Resolution	:	0.1 dB
Display	:	LCD, 16x 2 alpha numeric
Error Indicators	:	Overload and under range indication
Frequency weighting	:	A,C, Linear as per IS:9779- 1981.
Time Weighting	:	Slow, Fast & Impulse, as per IS: 9779- 1981.
Parameters	:	SPL, Lmax, Lmin, Leq, Sel, Ln, Elapsed Duration
Memory Options	:	32K, 64K, 128K or 256K
Storage capacity	:	1000 files, stored manually, or simultaneous parameters and 24 Hours logging at 1 sec interval or upto 128,000 readings.
Simultaneous Parameters:	:	SPL, Lmax, Lmin, Leq, SEL elapsed during 1sec or in continuous time mode.
Battery Life	:	24 hours per full charge
Battery Indicator	:	Battery life meter with auto shut-off on low battery
Outputs	:	Serial interface RS 232. Analog output for filters AC output of selected signal
External Power	:	External Power Supply 3051 (Optional)
Construction	:	Rugged die cast, reflection free, aluminium enclosure
Temperature	:	0 to 50 degree Celsius
Humidity	:	0 to 90% none condensing
Dimensions (mm)	:	L255 W 93 H 45mm
Weight	:	1000 gms
Standard accessories	:	Battery charger, Microphone, Briefcase type carrying case, Windshield, Operation Manual, Software in compact disc, Serial Cable
Optional Accessories	:	Acoustic Calibrator 3022, Tripod Stand, Mic Extension cable, Octave (3010) or third octave filter set (3013)

Note1 : The above stated item is designed and manufactured exclusively by Baseline Technologies, New Delhi, India. Baseline Technologies reserves the right to amend the above specifications at any time in the interest of improvement of the product or its process. The above specifications do not constitute a contract unless accompanied with a formal offer from Baseline Technologies.

Manufactured in India by Baseline Technologies, New Delhi, an ISO 9001:2000 company.

