DATALOGGING SOUND LEVEL METER

The Cygnet Datalogging Sound Level Meter 2511 is an Integrating Sound Level Meter with ability to save logged data on your pendrive, thus giving virtually limitless storage capacity. It logs SPL data, computes a running logarithmic average (L_{eq}), timestamps the data and saves it into a file on the attached USB pendrive, which can easily be read in your computer with any spreadsheet or text program like Excel. Specifically the meter may be employed for the following applications:

• Environmental Sound Pressure Level monitoring over user-defined time intervals.
• Scientific assessment of Noise abatement measures.
• Conformance to Environmental Protection Laws on Noise Pollution.
• Quality assessment of equipment from noise measurement perspective, with data storage.
• Optional Miniature Thermal printer can be attached to directly print out noise reports on the spot.
• Unattended pre-programmed operation, or remotely controlled through Serial Port.

Features of the 2511:

• **Hand held meter for measurement of Sound Pressure Level Leq levels over user-defined time periods.**
• **Datalogging with time-stamp on user attached USB pen-drive.**
• **Automatic filenaming encoding time and date in filename.**
• **Files on pendrive are directly readable in MS Excel, or similar software.**
• **Pre-programmed auto-operation possible upto 8 sessions per day, each with different Range settings.**
• **High quality electret omni-directional microphone, which can be extended with cable.**
• **30-134 dB(A) measurement, Type-1 accuracy as per IS9779. (Also available in Type 2)**
• **Can be controlled remotely through Serial Port.**
• **Printer 3064 (optional) can print reports on the spot (requires ac or car battery power).**
• **Rechargeable Li-Ion Battery.**
• **LCD alphanumeric display.**
• **Sealed and oil- proof membrane touch-switches.**
• **Extremely compact and reliable due to Surface Mount technology**.

Optional Printer 3064

2511 comes from Baseline Technologies, manufacturer of the renowned CYGNET brand of Sound Level Meters in India. Calibration is traceable to National Physical Laboratories, India. It is an ISO9001 establishment.

SPECIFICATIONS: DATALOGGING SOUND LEVEL METER 2511:

Standards	:	Designed as per IS:9779- 1981, Type 1
Measuring Range		30- 134 dB
Microphone	:	¼" Electret Condenser
Calibration	:	Factory calibrated, Field calibration by Acoustic calibrator 3022. Sofware calibration. Calibration traceable to NPL.
Detector	:	True RMS
Clock	:	Real time with calendar
Resolution	:	0.1 dB
Display	:	LCD, 16x 2 alpha numeric with backlight
Error Indicators	:	Overload and under range indication
Frequency weighting	:	A weighting as per IS:9779- 1981.
Time Weighting	:	Slow, as per IS: 9779- 1981.
Function	:	Measures dB(A) and computes Leq over user specified time period, and storage on users Thumb Drive.
Sampling Time	:	10 milliseconds. Running Leq is computed.
Storage Interval of Leq	:	1 sec, 1 minute, or 1 hour, user selectable.
Storage capacity	:	Practically unlimited, as files are stored on external user-mounted USB thumb drive.
File Formats	:	Comma Separated Time stamped values of Leq, and ODB files for reading through DL03. CSV format can be read directly into Word, Excel etc. With post processing in Excel, other related quantities like Noise Dose, TWA etc can be computed.
Programmed Operation	:	AUTO mode: Upto 8 sessions/day can be user-programmed to start and stop monitoring at pre-determined time in predetermined ranges. With REPEAT on, it will repeat the program daily till cancelled.
Battery	:	2100mAH Li Ion rechargeable battery with charger. Charger doubles as ac supply.
Battery Indicator	:	Battery life meter with auto shut-off on low battery
Remote Operation	:	Through Serial interface RS 232 using terminal software.
Printer Interface	:	Suitable for connecting to Portable Serial Thermal Printer 3064 (Optional) for printing csv files
Construction	:	Rugged die cast, reflection free, aluminium enclosure
Temperature	:	0 to 50 degree Celsius
Humidity	:	0 to 90% none condensing
Dimensions (mm)	:	L210 W90 H25mm
Weight	:	650 gms
Standard accessories	:	Battery charger, Microphone, Briefcase type carrying case, Windshield, Softcopy of Operation Manual, 4GB Pen-drive with DL03 software, Serial Cable
Optional Accessories	:	Acoustic Calibrator 3022, Tripod Stand, Mic Extension cable, Thermal Printer 3064.

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

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