

SOUND LEVEL METER

The 2031 is a precision instrument with Type-1 accuracy as defined by IS: 9779- 1981. It has 'A', 'C' and 'Lin' frequency weightings. "Lin" is useful while doing frequency analysis, using an external filter like the CYGNET OCTAVE FILTER SET 3010. A DC voltage output of the dB reading is also provided on a connector for interfacing with external dataloggers or PLCs for automation.

The instrument has three time weightings, 'Slow', 'Fast', and Impulse as per requirements of the IS, allowing measurement for various applications. The display works in the maximum hold when 'Manual Reset' is used. While in the "Auto Reset" mode, of the display is continuously updated with maxima of the previous duration.

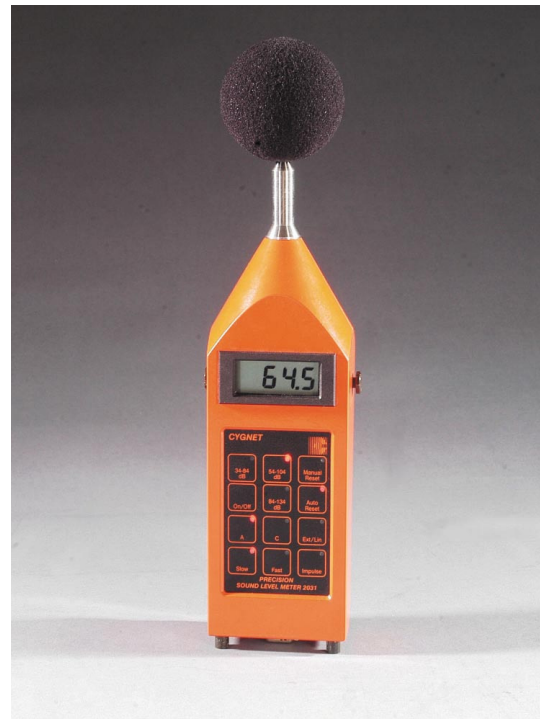
The transducer is a 1/4" electret condenser microphone, housed in a detachable body. The body also contains a pre-amplifier, which allows the microphone to be remotely mounted via an extension cable.

Precision circuits condition the signal, weight it in accordance with the specified networks. Since three ranges cover the entire measurement range from 34- 134 dB, the entire operation of the instrument is simplified.

The 2031 offers precision, versatility, ruggedness and portability at a very competitive price. It has proved its usefulness in several industrial applications in India and abroad.

Features of the 2031:

- **Measurement ranges 34- 134 dB in convenient 50 dB overlapping ranges.**
- **As per Type 1 accuracy of IS: 9779- 1981**
- **LCD display with 0.1 dB resolution**
- **'A', 'C', Frequency weightings.**
- **Slow, Fast, Impulse time response.**
- **Maximum hold facility**
- **Rechargeable NiCd batteries, built in.**
- **Removable microphone for remote mounting.**
- **No moving parts, membrane keypad**
- **Can be connected to dataloggers, filters, recorders etc through DC output.**
- **Rugged, reflection- free, die cast aluminium body**
- **Simple, convenient and rugged for use in harsh environments**



SPECIFICATIONS SOUND LEVEL METER 2031:

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
Resolution	: 0.1 dB
Display	: LCD, 0.5" 3½ digit
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	: Max Hold, Auto reset or Manual reset. Auto resets reading every 1 second.
Battery type	: Rechargeable Ni-Cd or Ni-MH batteries.
Battery Life	: Approx 10 hours per full charge
Battery Indicator	: Low Bat indicator on LCD.
Outputs	: Analog AC output of selected signal DC proportional to 3mV/dB range adjusted.
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% non-condensing
Dimensions (mm)	: 80 (W) x 52 (H) x 315 (L)
Weight	: 1100 gms (Instrument only); 6 Kg, Full set with carrying case
Standard accessories	: Battery charger, Microphone, Briefcase type carrying case, Windshield, Operation Manual.
Optional Accessories	: Acoustic Calibrator 3022, Tripod Stand, Mic Extension cable, Octave Filter Set (3010)

Note1 : The above stated item is designed and manufactured exclusively by Baseline Technologies, exclusive owner of "Cygnnet" brand, 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.

