

1565-B Series

The 1565-B a general purpose sound-level meter, ideal for measurements required by OSHA and for general noise surveys. This popular meter weights less than 1 pound, features simple pushbutton operation, battery power, and a rigged ceramic microphone. The 1565-B may be purchased alone, with an acoustic calibrator, windscreen, and with a choice of carrying/storage cases.

- 40 to 140 dB
- ANSI Type 2
- A, B, C weighting
- Fast/slow meter response
- MESA approved



Model 1565-B Sound-Level Meter

SPECIFICATIONS

Sound Level: 40 to 140 dB re 20 $\mu\text{N/m}^2$

Weighting: A, B, and C. Conforms to ANSI S1, 4-1971 Type 2 and IEC651.

Meter: rms response with fast and slow speeds.

Input: MICROPHONE: Lead-ziconate-titanate ceramic.

Output: > 1.2 Vrms behind 620 Ω with meter at full scale; will drive oscilloscope or low-impedance headphones. HARMONIC DISTORTION: < 0.5% (0.1% typical) from 32 Hz to 8 kHz, C-weighted with meter at full scale. Any load impedance may be connected.

Calibration: Can be pressure calibrated at 125, 250, 500, 1000, and 2000 Hz with GR 1562 Calibrator, and at 1000 Hz with GR 1987*.

Environmental: TEMPERATURE: -10 to 50°C operating; -40 to +60°C storage, with batteries removed; coefficient of sensitivity ~ +0.02 dB/°C at 6 dB below full-scale meter reading. HUMIDITY: 0-90% RH within 0.5 dB. MAGNETIC FIELD: 1 oersted (80 A/m) 50- or 60- Hz field causes about 45 dB C-weighted (negligible A-weighted) indication when meter is oriented for maximum sensitivity to field. A

1-oersted, 400-Hz field causes about 58 db A-weighted indication when meter is oriented for maximum sensitivity. VIBRATION: With the microphone attached, the highest meter indications (without interference from background noise) when the instrument is vibrated at an acceleration of 0.1 g, are 67 dBA at 63 Hz, 68 dBA at 250 Hz, and 70 dBA at 1000 Hz. When the microphone is replaced by an equivalent impedance, the same test gives no meter indication.

Supplied: Microphone safety cap, instruction manual, carrying case.

Power: Two 9V alkaline batteries (NEDA 1604AC) supplied, provide 50 hours of operation.

Mechanical: Shielded plastic case

Dimensions: 16.5 cm H x 0.92 cm W x 0.53 cm D (6.5" x 3.63" x 2.09").

Weight: 0.48 kg (13 oz) net, 1.4 kg (3 lb) shipping.

* At 125, 250, 500, 1000, 2000, and 4000 Hz with GR 1986 Calibrator.

ORDERING INFORMATION

1565-9702 1565-B Sound-Level Meter

1562-9600 Carrying Case



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