

2800M

Integrating Sound Level Meter & OBA

- Easy Setup & Operation
- Wide 20 to 140 dB Ranges
- Measures, Records & Displays:
 - SPL
 - Leq
 - Peak
 - Impulse
 - Lmax
 - Lmin
 - SEL
 - Elapsed Time
- Computes and Stores Leq, Lmax, Lmin and SEL by frequency with optional OB filters
- Generates Hard Copy Printouts
- Outputs AC and DC signals to recorders

The model 2800M is a Type 2 integrating sound level meter that provides comprehensive data for industrial, occupational or environmental noise measurements. The 2800M comes standard with 3db exchange rate.

Although the 2800M performs sophisticated measurements, it is easy to set up and operate. The large display provides both digital values and a quasi-analog bar graph for clear and easy interpretation of readings.



The 2800M outputs fully formatted reports directly to a serial printer. Reports can include a complete listing of exceedance levels from L1 to L99. Reports can also be captured by your PC via serial port and stored for later use using popular Windows® utility programs such as HyperTerminal.

Optional interchangeable octave band filter sets are available for the 2800M (see reverse side of this sheet) to convert the 2800M to an octave band analyzer. Choices include a full octave filter (OB-100M) or a combination 1/3 and full octave filter (OB-300M).

2800M Specifications

Operating Range:	Meter only: 35 to 140 dbA Optional external filters: 20 to 140 dbA Noise floor varies depending on filter frequency selection.	Batteries:	(2) 9-volt alkaline batteries, NEDA 1604A, provides approximately 20 hrs operation. 10 hrs with optional OB filter attached.
Standards:	ANSI S1.4-1983, Type 2 and relevant sections of IEC 651-1979, Type 2, and IEC 804-1985, Type 2.	Temperature Range:	Operating: -10°C to +50°C Storage: +20°C to +60°C
Microphone:	Removable 0.5" pre-polarized condenser (electret), pre-amp: removable and will drive up to 100' of cable	Size:	3.3" x 8.2" x 1.8" (84 x 208 x 47 mm) not including height of preamp.
Outputs:	RS-232 to computers and printers. Selectable baud rates of 300, 600, 1200 or 2400. ASCII character format. AC & DC output for chart recorders.	Weight:	24 oz. (680 g) including preamp, microphone and batteries

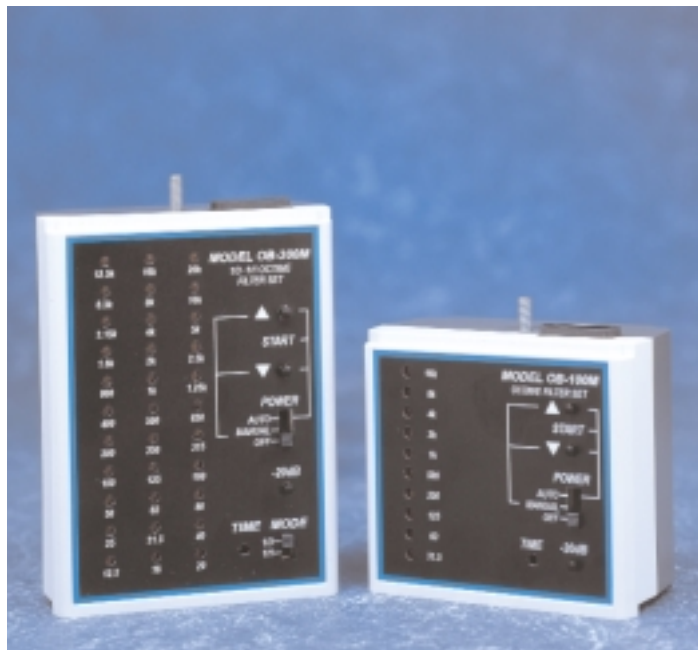
OB-300M & OB-100M

Octave Band Filters

The OB-300M combination 1/3-1/1 Octave Band Filter Set gives a choice of measuring 33 one-third octave bands or selecting 11 standard full octave band measurements. The filter set will manually or automatically sequence through each octave or 1/3 octave band and display the measured level on the sound level meter.

The OB-100M has the same automatic and manual features of the OB-300M except that measurements are made in full octave bands only.

Each filter set attaches easily to the 2800M sound level meter.



Filter Specifications

Standards: ANSI S1.11 Order 3 and IEC R225

Frequency

Range: **OB-100M:** 10 frequencies from 31.5 Hz to 16 kHz
OB-300M: 33 frequencies from 12.5 Hz to 20 kHz in 1/3-octave steps, or in 11 frequencies from 16 Hz to 16 kHz in 1/1 octave steps

Frequency

Selection: Full manual control or automatic sequential stepping through each frequency band.

Power

Source: Sound Level Meter

Size:

OB-100M: 3.3" x 2.8" x 1.8 (84 x 71 x 47 mm)
OB-300M: 3.3" x 4.2" x 1.8 (84 x 107 x 47 mm)

Weight:

OB-100M: 6 oz. (170 g)
OB-300M: 9 oz. (255 g)



QC-10M

Calibrator

To ensure the accuracy of your 2800M instrumentation, the model QC-10M provides quick, precise calibration.

The QC-10M generates a stable acoustic signal at a controlled frequency and amplitude to verify the accuracy of the 2800M.

The model QC-10M is a general purpose calibrator that generates a constant sound pressure level of 114dB at a fixed frequency of 1,000 Hz.

Specifications subject to change without notice

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