

**SOUND LEVEL
CALIBRATORS**



SOUND CALIBRATORS

SOUND CALIBRATOR SC-1

- 9V battery powered
- 94dBspl 110dBspl switchable
- 1/4" or 1/2" or individual adapters
- stainless steel body



General description

The SC-1 sound calibrator is a one frequency dual amplitude, self contained field calibrator that quickly and also precisely verifies the accuracy and the sensitivity of microphones. The unit generates a 1kHz reference tone at 94 and 110 dB SPL. The calibrator uses a single 9 Volt battery.

The SC-1 consists of a amplitude switchable constant frequency oscillator, a transducer and a microphone coupler. The coupler accepts a large variety of microphones. Separate 1/2", 1/4" and 8mm adapters are available (others upon request).

Regulation of the SPL-output is inherently provided against battery drain.

Specifications

- output frequency 1kHz \pm 0.2%
- output amplitude switchable 94dB / 110dB
- accuracy \pm 0.5dB @ 20°C [68°F] and 1013mbar [760mm Hg]
- Operating Temperature -5°C to 55°C [40°F to 130°F]

- Temperature drift Coefficient of SPL is -0.08 to -0.012 dB/K
- Humidity 5 to 95% relative humidity
- Power supply: 9V standard transistor battery (Low Batt control)
- Construction Solid state integrated circuitry in stainless steel/plastic housing
- Size: dia 40mm [1.57"], x 132mm [5.24"]

Theory of operation

The oscillator is a crystal stabilized squarewave oscillator followed by a squarewave to sine converter. Automatic gain control and temperature compensation are built-in. The oscillator output drives the transducer and is converted to sound.

Version with MB-190 BOX (case)



Ordering information :

Order No.	Name
230111	SC-1 + CA-1/2 + CA-1/4 Sound Calibrator
230112	SC-1 + CA-1/2 + CA-1/4 + case Sound Calibrator
230110	SC-1 Sound Calibrator
230210	CA 1/4 Adapter
230220	CA 1/2 Adapter
230230	CA 8 Adapter
230290	CA cust, specify diameter