

# Class 1 Sound Calibrator 94 dB



**The battery-operated Class 1 Sound Calibrator 94 dB is classified for calibrating Class 1 measurement microphones, sound level meters, and other acoustic measurement equipment. This precision microphone calibrator delivers 94 dB at a frequency of 1 kHz.**

The Sound Calibrator ensures reliable performance in field and laboratory settings and meets the stringent requirements of the latest IEC 60942:2017 standard for acoustic calibrators with Class 1 performance. Its user-friendly design allows for straightforward operation, making it accessible for various calibration tasks.

This device features a stable sound pressure output, ensuring consistent performance regardless of battery condition. Additionally, it is equipped with an automatic shut-off function to conserve battery life while maintaining a stable output.

## KEY FEATURES

- Output level: 94 dBSPL
- Output frequency: 1 kHz
- 1/2" microphone opening
- Optional adapter for the 1/4" measurement microphones M4261 and M4262
- Compliant with standards IEC 60942-1:2017
- Battery-powered

## APPLICATIONS AT SOUND LEVEL MEASUREMENT

- Ensure accurate measurements
- Adapt the measurement microphone to the local environmental conditions, such as temperature, humidity, and air pressure
- Proving traceable measurements to national references
- Verify the stability of the sound level meter

Technical Specifications	
Calibration sound pressure level	94dB +/- 0.2dB reference to 20 µPa
Equivalent free-field level	-0.3 dB for 1/2" microphones
Frequency	1kHz +/- 1%
Harmonic distortion	<2%
Stabilization	5 seconds
Effective volume	6.19 cm <sup>3</sup> ± 0.2 cm <sup>3</sup>
Effective Load Volume Sensitivity	-0.0008 dB/mm <sup>3</sup> @ 1kHz
Cavity Diameter	0.525 inch
Reference conditions	23°C, 101.3kPa, 65% RH
Static pressure range	65 kPa to 108kPa
Temperature range	-10°C to +50°C
Storing Temperature	-20°C to +60°
Humidity range	25 to 90% Relative Humidity
Dimensions L x W x H	120mm x Ø48mm
Weight with battery	185g
Battery	<ul style="list-style-type: none"> <li>1 x 9v 6F22 (Neda 1604)</li> <li>Approx 15 Hours Continuous Use</li> <li>9v Nominal (10v Maximum, 6.4v Minimum)</li> </ul>
Traceability	<ul style="list-style-type: none"> <li>PTB Type Approval to DIN EN 60942:2017 Class 1 Reference No.: PTB-1.61.4028829</li> <li>LNE Type Approval to DIN EN 60942:2017 Class 1 Reference No.: LNE-24906</li> <li>CEM Type Approval to DIN EN 60942:2017 Class 1 Reference No.: CEM 140786001</li> </ul>
Standard	<ul style="list-style-type: none"> <li>IEC 60942:2017 Class 1</li> <li>EMC : EN50081-1, EN 50082-1</li> <li>Safety EN 61010-1, 1993 portable equipment category 2</li> </ul>
Accessories included	<ul style="list-style-type: none"> <li>Battery</li> <li>Manufacturer Calibration Certificate</li> </ul>
Optional	1/4" Calibrator Adapter, NTi Audio # 600 000 404
NTi Audio #	600 000 402