

## GENERAL INFORMATION

**Cal31** from **01dB** brand is a class 1 acoustic calibrator for calibration and adjustment of any type of sound level meter equipped with a 1/2 " diameter microphone. Its specifications comply with IEC 60942: 2003 Class 1 and is approved in France by the Laboratoire National d'Essais (LNE) under number LNE-33867-0 and in Germany by Physikalisch-Technische Bundesanstalt (PTB) under number PTB-1.63-4087636.

It is composed of an ergonomic and robust case. Easy to use, just press a button to start the signal. DUO, FUSION and CUBE products automatically detect the 93.7 dB signal at 1 kHz and initiate the calibration procedure. A pressure of more than 3s also allows a permanent emission of the signal.

CAL31 acoustic calibrator comes with 24-months warranty from the delivery date.



## TECHNICAL SPECIFICATIONS

### Metrology

Standard.....	IEC 60942:2003 Class 1
Type approval.....	PTB-1.63-4087636
.....	LNE-33867-0
Frequency .....	1kHz ± 1%
Sound level (pressure field microphone) .....	94.0 dB reference 20 µPa ± 0.2dB
Sound level (Free field microphone) .....	93.7 dB reference 20 µPa ± 0.2dB
Distortion .....	Less than 2%
Stabilisation duration .....	3 s after switching on

### Environment

Operating temperature.....	-10°C to 50°C
Storage temperature.....	-20°C to 60°C
Operating static pressure.....	65 kPa to 108kPa
Operating humidity.....	25% to 90% HR

### Mechanical

Dimensions .....	Ø48 x H135 mm
Cavity diameter.....	1/2"
Effective volume.....	6.19 cm <sup>3</sup> ± 0.2 cm <sup>3</sup>
Weight.....	185g (with battery)
Case material.....	Plastic
Button .....	Short press to switch off or on
.....	Press and hold for 3 s to switch on continuously

### Battery

Type .....	1 x 9V (6F22, Neda 1604, PP3)
Voltage.....	9V Nominal (10V Maximum, 6.4V Minimum)
Battery lifetime .....	Approximately 15 hours continuous use
Automatic Switch off.....	After 5 min

