

Certificate of Calibration



ACOEM Group

Certificate Number: **128885**

Date of Issue: **15 May 2019**

Instrument

Manufacturer: **01dB**

Serial Number: **88150**

Model Number: **CAL31**

Calibration Procedure

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC 60942:2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a WS2F condenser microphone type MK:224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

Date of Calibration: **08 May 2019**

Calibration Results

Measurement	Level (dB)	Frequency (Hz)	Distortion (% THD + Noise)
1	94.00	1000.0	1.35
2	94.00	1000.0	1.24
3	93.98	1000.0	1.28
Average	93.99	1000.0	1.29
Uncertainty	± 0.11	± 0.14	± 0.10

The reported uncertainties of measurement are expanded by a coverage factor of $k=2$, providing a 95% confidence level.

Environmental Conditions

Pressure: 99.50 kPa
Temperature: 22.9 °C
Humidity: 43.8 %

Evidence of Pattern Approval

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC 60942:2003 Annex A to Class 1. This has been confirmed with the Physikalisch-Technische Bundesanstalt (PTB).

Statement of Calibration

As public evidence was available, from a testing organisation responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the Class 1 requirements of IEC 60942:2003.

Calibration Laboratory

Laboratory: CR plc c/o: 01dB-Metravib SAS
Acoustic House
YO14 0PH

Test Engineer: Jack Smith

