

Calibration Certificate

CE-REP-10992.xls

ISSUED FOR : **RSK ACOUSTICS**
Spring Lodge
172 Chester Road

WA6 0AR Helsby
Cheshire

Name and location of the laboratory of calibration:

Acoustic1 - Overdale Manordeilo, Llandeilo
Carmathenshire UK SA19 7BD

TESTED INSTRUMENT

Designation : **Sound calibrator**

Manufacturer : **RION**

Type : **NC-75** Serial number : **34391438**

Identification number :

Date of issue : **29/07/2025**

This certificate includes **3** pages

The measurements are performed according to the IEC 60942: 2018, Electroacoustics, - Sound calibrators.

Steve THOMAS

Head of calibration laboratory at Acoustic 1



THIS CERTIFICATE is compliant with THE FD X 07-012 STANDARD DOCUMENTATION

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Identification :

	Sound calibrator
Manufacturer	RION
Type	NC-75
Serial number	34391438
Adaptor	/

Calibration Program:

The calibrator has been calibrated on different characteristics:

- Acoustic pressure level
- Acoustic signal frequency
- Total distortion + noise

Calibration Method:

The instrument has been calibrated in a air conditioning room. The characteristics are measured on a measuring chain which used a calibrated acoustic calibrator as reference.

The total distortion + noise is measured using a rejection filter device (distortion factor meter).

Calibration conditions:

Date of calibration	7/29/2025
Operator Name	Steve Thomas
Calibration instruction	MET.18.INS.084
Static pressure	>95,5 ; <105 kPa
Temperature	23 ± 3 °C
Relative humidity	>25 ; <70 %HR

Instruments used for calibration:

Designation	Manufacturer	Type	Serial number	Identification number
Multimeter	HP	34401A	3146A27296	-
Distortion meter	HP	8903E	2818A00381	-
Conditioner	GRAS	12AK	323147	-
Calibrator	ACOEM	CAL21	34675324	-
Microphone	ACOEM	MCE212	18019	-
Thermometer, hygrometer, barometer	TESTO	622	39517641/806	-

Results:

Mentioned expanded uncertainties correspond to two standard uncertainty types ($k=2$). Standard uncertainties are calculated including different uncertainty components, reference standards, instruments used, environmental conditions, calibrated instrument contribution, repeatability...

This calibration certificate guarantees the traceability of calibration measurements to the International System of Units (SI).

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	Nominal value	Displayed value	Measurement error	Maximum permissible errors	Expanded uncertainty
Frequency (Hz)	1000.0	1000.0	0.0	$\pm 7,0$	0.6
Level (dB)	94.00	93.98	-0.02	$\pm 0,25$	0.08
Total distortion + noise (%)		0.2		2.5	0.4

Calibrator user manual	NOT1406 September 2016 G - CAL21 CAL02 User Manual FR_EN
Type-approval certificate	France: LNE-30010 rev. 0 01/09/2015 Deutschland: PTB 21.51 03.01 27/01/2003

Conclusion:

This sound level calibrator is **compliant with the specifications.**

End of calibration certificate