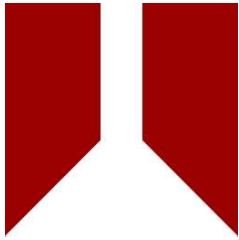


CERTIFICATE OF CALIBRATION

ISSUED BY **Cirrus Research plc**
DATE OF ISSUE **24/03/22** CERTIFICATE NUMBER **171968**



Cirrus Research plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

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Test engineer:
D.Swalwell
Electronically signed:

Microphone

Microphone capsule

Manufacturer: Cirrus Research plc
Model: MK:224
Serial Number: 211977D

Calibration procedure

Open circuit: 45.2 mV/Pa
Sensitivity at 1 kHz: -26.9 dB rel 1 V/Pa

The microphone capsule detailed above has been calibrated to the published data as described in the operating manual of the associated sound level meter (where applicable).

The frequency response was measured using an electrostatic actuator in accordance with BS EN 61094-6:2005 with the free-field response derived via standard correction data traceable to a National Measurement Institute.

The absolute sensitivity at 1 kHz was measured using an acoustic calibrator conforming to IEC 60942:2003 Class 1.

Environmental conditions

Pressure: 102.00 kPa
Temperature: 22.0 °C
Humidity: 43.0 %

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Free-Field Frequency Response : Tabular

Frequency (Hz)	Free-Field Sensitivity (dB rel 1 kHz)	Actuator Response (dB)
63	0.01	-0.11
80	-0.02	-0.04
100	-0.02	0.02
125	0.01	0.08
160	-0.01	0.06
200	0.00	0.07
250	0.03	0.06
315	0.03	0.07
400	0.02	0.06
500	0.02	0.05
630	0.02	0.06
800	0.02	0.03
1 000	0.00	0.01
1 250	0.01	-0.02
1 600	0.02	-0.08
2 000	0.03	-0.17
2 500	0.05	-0.29
3 150	0.04	-0.52
4 000	-0.02	-0.87
5 000	0.02	-1.36
6 300	-0.07	-2.14
8 000	-0.12	-3.33
10 000	-0.37	-5.11
12 500	-0.49	-7.02
16 000	-0.93	-8.83
20 000	-2.56	-11.93

Free-Field Frequency Response : Graphical

