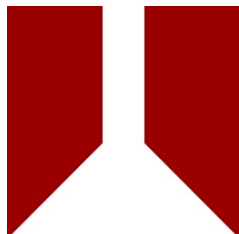


CERTIFICATE OF CALIBRATION

ISSUED BY **Cirrus Research plc**

DATE OF ISSUE **10 July 2019**

CERTIFICATE NUMBER **130575**



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

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Approved signatory

T. Goodrich

Electronically signed:

Handwritten signature of T. A. Goodrich in black ink.

Sound Level Meter

Instrument information

Manufacturer: Cirrus Research plc

Notes:

Model: CR:171B

Serial number: G061094

Class: 1

Firmware version: 3.2.2690

Test summary

Date of calibration: 10 July 2019

The calibration was performed respecting the requirements of ISO/IEC 17025:2017.

Notes

This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

CERTIFICATE OF CALIBRATION

Certificate Number:

130575

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Environmental conditions

The following conditions were recorded at the time of the test:

Pressure: 100.97 kPa Temperature: 22.6 °C Humidity: 57.7 %

Test equipment

Equipment	Manufacturer	Model	Serial number
Signal Generator	TTi	TGA1241	257310
Attenuator	Cirrus Research	ZE:952	52200
Environmental Monitor	Comet	T7510	16966334

Additional instrument information

Instruction manual:

Reference level range: Single range

Pattern approval: No

Source of pattern approval: -

Preamplifier

Model: MV:200F

Serial number: 7629F

Microphone

Model: MK:224

Serial number: 211370A

Test results summary

Test	Result
Internal settings adjustment	Complies
Toneburst response	Complies
Electrical noise-floor	Complies
Linearity	Complies
Frequency weightings	Complies
Frequency and time weightings at 1 kHz	Complies
C-weighted peak	Complies
Overload indication	Complies
High level stability	Complies
Long-term stability	Complies