# CERTIFICATE OF CALIBRATION

ISSUED BY Cirrus Research plc

DATE OF ISSUE 05 May 2022 CERTIFICATE NUMBER 173902



Cirrus Research plc Acoustic House Bridlington Road Hunmanby North Yorkshire YO14 0PH United Kingdom Page 1 of 2

Approved signatory

R.Woodall

Electronically signed:

Sound Level Meter: IEC 61672-3:2013

### Instrument information

Manufacturer: Cirrus Research plc Notes:

Model: CR:151A Serial number: G300649

Class:

Firmware version: 5,7,3228

### **Test summary**

Date of calibration: 04 May 2022

The calibration was performed respecting the requirements of ISO/IEC 17025:2017. Periodic tests were performed in accordance with procedures from IEC 61672-3:2013.

The sound level meter submitted for testing successfully completed the class 1 periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed.

However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 because (a) evidence was not publicly available, from an independent testing organisation responsible for pattern approvals, to determine that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 cover only a limited subset of the specifications in IEC 61672-1:2013.

#### **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%.

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Page 2 of 2

### **Environmental conditions**

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

BeforePressure:100.84 kPaTemperature:22.3 °CHumidity:49.6 %AfterPressure:100.83 kPaTemperature:21.3 °CHumidity:46.8 %

### **Test equipment**

Equipment	Manufacturer	Model	Serial number
Signal Generator	TTi	TG4001	395851
Attenuator	Cirrus Research	ZE:952	78135
Environmental Monitor	Comet	T7510	16966334

### Additional instrument information

Instruction manual:

Reference level range: Single range

Pattern approval: No Source of pattern approval: -

Preamplifier Microphone

Model: MV:200F Model: MK:224
Serial number: 9123 Serial number: 215972A

## Test results summary

Test	Result	
Toneburst response	Complies	
Electrical noise-floor	Complies	
Linearity	Complies	
Electrical 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	
Acoustic Frequency weightings	Complies	