

# Certificate of Calibration

Issued by University of Salford (Acoustics Calibration Laboratory)  
UKAS ACCREDITED CALIBRATION LABORATORY NO. 0801

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## APPROVED SIGNATORIES

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0801

University of  
**Salford**  
MANCHESTER

Certificate Number: 04455/1

Date of Issue: 26 September 2019

## CALIBRATION OF A SOUND CALIBRATOR

FOR: noise.co.uk Ltd  
The Hay Barn  
Newnham Grounds  
Kings Newnham Lane  
Bretford  
Warks  
CV23 0JU

FOR THE ATTENTION OF: Samantha Hargreaves

DESCRIPTION: Calibrator with housing for one inch  
microphones and adaptor type 1443 for half  
inch microphones.

MANUFACTURER: Norsonic

TYPE: 1251

SERIAL NUMBER: 31817

DATE OF CALIBRATION: 25/09/2019

TEST PROCEDURE: CTP06 (Laboratory Manual)

Test Engineer (initial): CL

Name: Claire Lomax

*This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to the 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.*

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## MEASUREMENTS

The sound pressure level generated by the calibrator was measured using a calibrated, WS2P condenser microphone as specified in this certificate. The calibration was carried out with the calibrator in the half-inch configuration.

Five determinations of the sound pressure level, frequency and total distortion were made.

The results have been corrected to the reference pressure of 101.325 kPa using manufacturer's data.

## RESULTS

Coupler configuration:	Half-inch
Microphone type:	GRAS 40AG
Output level (dB re 20 $\mu$ Pa):	114.21 dB $\pm$ 0.10 dB
Frequency (Hz):	1000.74 Hz $\pm$ 0.12 Hz
Total Distortion (%):	<0.3 % $\pm$ 0.32 %

Average environmental conditions at the time of measurement were:

Pressure:	99.499 kPa $\pm$ 0.015 kPa
Temperature:	22.4 °C $\pm$ 0.4 °C
Relative humidity:	62.3 % $\pm$ 2.4 %

*The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.*

*All measurement results are retained at the acoustic calibration laboratory for at least four years.*