

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: 04280/1

Date of Issue: 28 May 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: 33824

DATE OF CALIBRATION: 28/05/2019

TEST PROCEDURE: CTP06 (Laboratory Manual)

Test Engineer (initial): GP

Name: Gary Phillips

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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 μ Pa):	114.23 dB \pm 0.10 dB
Frequency (Hz):	1000.06 Hz \pm 0.12 Hz
Total Distortion (%):	<0.3 % \pm 0.32 %

Average environmental conditions at the time of measurement were:

Pressure:	100.645 kPa \pm 0.015 kPa
Temperature:	22.8 °C \pm 0.4 °C
Relative humidity:	40.6 % \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.