

Calibration Certificate

Issued By: Castle Group Ltd

Date Of Issue : 14/06/17

Certificate No : 000000/00000

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All instruments are tested to check compliance with particular specifications. These specifications may be appropriate British Standards, or if the instrument was not originally designed to meet any British Standard, or when the instrument was originally manufactured a relevant British Standard did not exist, the instrument will be tested to the manufacturer's original specification.

Absolute acoustic calibration of acoustic calibrators and sound level meters is checked at one or more standard frequencies against an independent sound source with calibration directly traceable to the National Physical Laboratory (NPL) in the United Kingdom. The NPL reference applicable for the calibration of the test equipment is shown below.

The performance of the instrument was determined by comparison with the manufacturers' specification as found in the instrument handbook or other technical publication. Any significant uncertainty of the measuring system will also be included.

The instrument was allowed to stabilise for a period of 30 minutes prior to measurements made.

The ambient temperature and relative humidity throughout calibration were 25 ± 2 °C and 50% RH respectively.

Instruments used to carry out this calibration are as follows: -

Multifunction Calibrator 4226 Serial No: 1551589

Applicable Reference: S6645.

Subject of Calibration: GA256

Instrument: Personal Sound Exposure Meter

Serial No: 000000

Microphone Data

Microphone Type: MK80

Microphone Serial No: 00000

Basis Of Test: Compliance to IEC 61672-1 : 2002 Class 1

Calibrated By:

A N Engineer

(Approved Signatory)

Date of Calibration: 14 Jun 2017

Completed Status: Pass

Checked By:

A N O Engineer

(Approved Signatory)

Recalibration Due: 01 Jul 2018

Client: End User Company Name

Address: Place

Street

Location

Town

County

Postcode

Client Reference: If Applicable

Castle Group Ltd

Salter Road, Scarborough Business Park, Scarborough, North Yorkshire YO11 3UZ United Kingdom

t: +44 (0)1723 584250 f: +44 (0)1723 583728 e: sales@castlegroup.co.uk

www.castlegroup.co.uk

CALIBRATION RESULTS

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Date: 14/06/17 Certificate No: 000000/00000 Calibrated By: A N Engineer



ACOUSTICAL RESPONSE TO SUPPLIED CALIBRATOR (Where applicable)

The following reading was obtained from the supplied calibrator. Type: Serial Number:

Frequency	Reference	Indicated SPL	Adjusted SPL
1kHz	94.0 dBA	dBA	dBA*

*Includes microphone cavity correction at 1kHz. Calibrate to this level when used with supplied calibrator.

ACOUSTICAL REFERENCE

The method of calibration employed was a direct-coupled acoustic reference source.

Frequency	Reference	Indicated SPL	Adjusted SPL
1kHz	94.0 dBA	dBA	94.0dBA

ACOUSTICAL SCALING

The method of calibration employed was a direct-coupled acoustic reference source.

SPL [1KHz]	INDICATED RESPONSE	TOLERANCE
94 dBA	dBA	± 0.5dB
104 dBA	dBA	± 0.5dB
114 dBA	dBA	± 0.5dB

FREQUENCY WEIGHTING

The method of calibration employed was a direct-coupled acoustic reference source

(Hz)	1K	2K	4K	8K	500	250	125	63
A (dB)								
TOL ±	1.0 dB	2.0 dB	3.0 dB	5.0 dB	1.5 dB	1.5 dB	1.5 dB	2.0 dB

DOSE RESPONSE

(Reference to 114.0dB WRT 1 kHz for a duration of 30 seconds. Criterion 85. Exchange 3)

FREQUENCY (HZ)	DOSE [%]	TOLERANCE	SPL
1K (WRT 104.0)		07.5 to 09.4	
1K		73.3 to 94.8	
2K		55.8 to 177.0	
500		25.4 to 64.0	
250		08.2 to 16.4	

Uncertainties of the measurement

The uncertainties in the table of results correspond to an estimated confidence probability of not less than 95%.

* Notes