Calibration Certificate

Issued By: Castle Group Ltd

Date Of Issue: 13/06/17

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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: GA116B

Instrument: Digital Sound Pressure Level 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: 13 Jun 2017

Completed Status: Pass

End User Company Name

Address: Place

Client:

Street Location Town County Postcode

Client Reference: If Applicable

Checked By:

A N O Engineer (Approved Signatory)

Recalibration Due: 01 Jul 2018

Castle Group Ltd



CALIBRATION RESULTS

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Date: 13/06/17 Certificate No: 000000/00000 Calibrated By: A N Engineer

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ACOUSTICAL RESPONSE TO SUPPLIED CALIBRATOR

The following reading was	Serial Number:			
Frequency	requency Reference Indicated 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)	55 RANGE	TOLERANCE				
94 dBA	dBA	± 0.3dB				
104 dBA	dBA	± 0.3dB				
114 dBA	dBA	± 0.3dB				

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

SPL (1KHz)	35	75	TOLERANCE
94 dBA	dBA	dBA	\pm 0.8 dB

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

The Gold And I would be the medical of callot about employed was a diffect-coupled acoustic reference source										
FREQ (Hz)	1K	2K	4K	8K	12.5K	500	250	125	63	31.5
A (dB)										
C (dB)										
TOL ±	0.7	1.0	1.0	+1.5, -2.5	+2.0, -5.0	1.0	1.0	1.0	1.0	1.5

TIME WEIGHTING

TONE BURST The method employed was a direct electrical signal injection on the reference range

TO NE BOILDT THE method employed was a direct electrical signal injection on the reference range.						
Time Weighting Tone Burst	Reference Level (dBA) -3dB WRT FSD	Response	Tolerance			
Fast (200 ms)	116.0 dBA (Ref-1dB)	dBA	± 0.8dB			
Fast (2 ms)	99.0 dBA (Ref -18 dB)	dBA	+1.3, -1.8 dB			
Fast (0.25 ms)	90.0 dBA (Ref - 27 dB)	dBA	+1.3, -3.3 dB			
Slow (200 ms)	109.6 dBA (Ref -7.4 dB)	dBA	± 0.8dB			
Slow (2 ms)	90.0 dBA (Ref -27 dB)	dBA	+1.3, -3.3 dB			

Uncertainties of the measurement

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

^{*} Notes