

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 calibration of vibration calibrators and vibration meters is checked at one or more standard frequencies against an independent sound source with calibration directly traceable to the Physikalisch-Technische Bundesanstalt (PTB) in Germany. The PTB 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 22 ± 2 °C and 35% RH respectively.

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

Vibration Exciter: GA606 Serial Number 4357

Applicable Reference: PTB-17012-2017, reference no: 1.71-1508/0317.

Subject of Calibration: GA2002

Instrument: Pocket Industrial Vibration Meter

Serial No: 000000

Accelerometer Data

Accelerometer Type: KD1001

Serial Number: 123456

Sensitivity Value: 10.0

Basis Of Test: Compliance to Manufacturer's Original Specification

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

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CALIBRATION RESULTS

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



INTEGRATOR TEST. (Low Range, Mechanical Filter Selected) Relative to 10.02 ms² at 159.20Hz

X-AXIS ONLY	ACTUAL VALUE	PREFERRED VALUE	TOLERANCE
ACCELERATION (RMS)		1.02g	0.97 to 1.07g
VELOCITY (RMS)		9.98mm ¹	9.52 to 10.52mm ¹
DISPLACEMENT (RMS)		9.97um	9.51 to 10.51um

RANGE TEST (Acceleration) Relative to 1.0g at 100Hz

TARGET	LOW RANGE	HIGH RANGE	TOLERANCE
0.1		—	+/- 10%
1.0			+/- 10%
10.0			+/- 10%
100	—		+/- 10%

MECHANICAL FILTER TEST. (Low Range)

FREQUENCY	READING	TOLERANCE
100Hz		9.5 to 10.5g
10Hz		7.0 TO 11.0g
1KHz		6.0 to 12.0g
10Khz		<0.1g

LINEAR FILTER. (Low Range)

FREQUENCY	READING	TOLERANCE
100Hz		9.5 to 10.5g
10Hz		7.0 to 11.0g
1K		9.0 to 11.0g
10K		4.0 to 15.0g

Uncertainties of the measurement

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

* Notes