

## Calibration Certificates

Calibration certificates for Sound Level Meters and caibrator with the following serial numbers:

Rion NL-52 – SN: 231668;

Rion NL-52 – SN: 710288;

Rion NL-52 – SN: 976162;

Rion NL-52 – SN: 186672;

Bruel and Kjaer 2238 – SN: 2638294;

Bruel and Kjaer 2238 – SN: 2562663;

Bruel and Kjaer 2238 – SN: 2638292; and,

Bruel and Kjaer 2238 – SN: 2562813.

Rion NL-52 – SN: 231668



## CERTIFICATE OF CALIBRATION



0653

**Date of Issue: 20 April 2018**

**Certificate Number: UCRT18/1436**

Issued by:

ANV Measurement Systems  
Beaufort Court  
17 Roebuck Way  
Milton Keynes MK5 8HL  
Telephone 01908 642846 Fax 01908 642814  
E-Mail: [info@noise-and-vibration.co.uk](mailto:info@noise-and-vibration.co.uk)  
Web: [www.noise-and-vibration.co.uk](http://www.noise-and-vibration.co.uk)  
Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

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Approved Signatory

K. Mistry

**Customer**                   AWN Consulting Limited  
The Tecpro Building  
Clonshaugh Business and Technology Park  
Dublin 17  
Ireland  
D17 NX50

**Order No.**

**Description**

**Identification**

Sound Level Meter / Pre-amp / Microphone / Associated Calibrator

Manufacturer	Instrument	Type	Serial No. / Version
Rion	Sound Level Meter	NL-52	00186668
Rion	Firmware		1.9
Rion	Pre Amplifier	NH-25	76701
Rion	Microphone	UC-59	12813
Rion	Calibrator	NC-74	34536109
	Calibrator adaptor type if applicable		NC-74-002

**Performance Class**    1

**Test Procedure**

TP 2.SLM 61672-3 TPS-49

*Procedures from IEC 61672-3:2006 were used to perform the periodic tests.*

**Type Approved to IEC 61672-1:2002**    YES    Approval Number    21.21 / 13.02

*If YES above there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2003*

**Date Received**

20 April 2018

ANV Job No.

UKAS18/04261

**Date Calibrated**

20 April 2018

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

**Previous Certificate**

*Dated*

*Certificate No.*

*Laboratory*

**Initial Calibration**

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Rion NL-52 – SN: 710288



# CERTIFICATE OF CALIBRATION



**Date of Issue: 27 August 2019**

**Certificate Number: UCRT19/1934**

Issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: [info@noise-and-vibration.co.uk](mailto:info@noise-and-vibration.co.uk)

Web: [www.noise-and-vibration.co.uk](http://www.noise-and-vibration.co.uk)

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Approved Signatory

K. Mistry

Customer ANV Measurement Systems  
Beaufort Court  
17 Roebuck Way  
Milton Keynes  
MK5 8HL

Order No. ANV MS HIRE

Description Sound Level Meter / Pre-amp / Microphone / Associated Calibrator

Identification	Manufacturer	Instrument	Type	Serial No. / Version
	Rion	Sound Level Meter	NL-52	00710288
	Rion	Firmware		2.0
	Rion	Pre Amplifier	NH-25	10282
	Rion	Microphone	UC-59	02726
	Rion	Calibrator	NC-74	34536109
		Calibrator adaptor type if applicable		NC-74-002

Performance Class 1

Test Procedure TP 2.SLM 61672-3 TPS-49

*Procedures from IEC 61672-3:2006 were used to perform the periodic tests.*

Type Approved to IEC 61672-1:2002 YES Approval Number 21.21 / 13.02

*If YES above there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2003*

Date Received 23 August 2019

ANV Job No. UKAS19/08556

Date Calibrated 27 August 2019

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

Previous Certificate

Dated  
03 July 2018

Certificate No.  
UCRT18/1672

Laboratory  
0653

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Rion NL-52 – SN: 976162



# CERTIFICATE OF CALIBRATION



**Date of Issue: 23 August 2019**

**Certificate Number: UCRT19/1930**

Issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: [info@noise-and-vibration.co.uk](mailto:info@noise-and-vibration.co.uk)

Web: [www.noise-and-vibration.co.uk](http://www.noise-and-vibration.co.uk)

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K. Mistry

Customer           AWN Consulting Limited  
                          The Tecpro Building  
                          IDA Business & Technology Park  
                          Dublin 17  
                          Ireland

Order No.           2003

Description         Sound Level Meter / Pre-amp / Microphone / Associated Calibrator

Identification	Manufacturer	Instrument	Type	Serial No. / Version
	Rion	Sound Level Meter	NL-52	00976162
	Rion	Firmware		2.0
	Rion	Pre Amplifier	NH-25	76279
	Rion	Microphone	UC-59	12055
	Rion	Calibrator	NC-74	34536109
		Calibrator adaptor type if applicable		NC-74-002

Performance Class   1

Test Procedure       TP 2.SLM 61672-3 TPS-49

*Procedures from IEC 61672-3:2006 were used to perform the periodic tests.*

Type Approved to IEC 61672-1:2002   YES   Approval Number   21.21 / 13.02

*If YES above there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2003*

Date Received       22 August 2019

ANV Job No.       UKAS19/08553

Date Calibrated     23 August 2019

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

Previous Certificate	Dated	Certificate No.	Laboratory
	Initial Calibration		

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Rion NL-52 – SN: 186672



## CERTIFICATE OF CALIBRATION



**Date of Issue: 20 April 2018**

**Certificate Number: UCRT18/1439**

Issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: [info@noise-and-vibration.co.uk](mailto:info@noise-and-vibration.co.uk)

Web: [www.noise-and-vibration.co.uk](http://www.noise-and-vibration.co.uk)

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K. Mistry

Customer            AWN Consulting Limited  
                          The Tecpro Building  
                          Clonshaugh Business and Technology Park  
                          Dublin 17  
                          Ireland  
                          D17 NX50

Order No.

Description

Identification

Sound Level Meter / Pre-amp / Microphone / Associated Calibrator

Manufacturer	Instrument	Type	Serial No. / Version
Rion	Sound Level Meter	NL-52	00186672
Rion	Firmware		1.9
Rion	Pre Amplifier	NH-25	76822
Rion	Microphone	UC-59	12818
Rion	Calibrator	NC-74	34536109
	Calibrator adaptor type if applicable		NC-74-002

Performance Class    1

Test Procedure

TP 2.SLM 61672-3 TPS-49

*Procedures from IEC 61672-3:2006 were used to perform the periodic tests.*

Type Approved to IEC 61672-1:2002    YES    Approval Number    21.21 / 13.02

*If YES above there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2003*

Date Received

20 April 2018

ANV Job No.

UKAS18/04261

Date Calibrated

20 April 2018

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

Previous Certificate

Dated

Certificate No.

Laboratory

Initial Calibration

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Bruel and Kjaer 2238 – SN: 2638294



## CERTIFICATE OF CALIBRATION



**Date of Issue: 09 November 2018**

**Certificate Number: UCRT18/2136**

Issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: [info@noise-and-vibration.co.uk](mailto:info@noise-and-vibration.co.uk)

Web: [www.noise-and-vibration.co.uk](http://www.noise-and-vibration.co.uk)

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Approved Signatory

K. Mistry

**CUSTOMER**      AWN Consulting Limited  
The Tecpro Building  
Unit 30  
Clonshaugh Business & Technology Park  
Dublin 17  
D17 XD90

**ORDER No**      1911      **Job No**      UKAS18/11704

**DATE OF RECEIPT**      07 November 2018

**PROCEDURE**      Calibration Engineer's Handbook section 3: verification of sound level meters to BS 7580:Part 1:1997

**IDENTIFICATION**      Sound level meter Brüel & Kjær type 2238-C serial No 2638294 connected via a preamplifier type ZC 0030 serial No 4191 to a half-inch microphone type 4188 serial No 2682517. Associated calibrator Brüel & Kjær type 4231 serial No 2263026 with a one-inch housing and adapter type UC 0210 for half-inch microphone.

**CALIBRATED ON**      09 November 2018

**PREVIOUS CALIBRATION**      Calibrated on 04 October 2016, Certificate No. 02873/4 issued by a UKAS accredited calibration laboratory No. 0801

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Bruel and Kjaer 2238 – SN: 2562663



## CERTIFICATE OF CALIBRATION



**Date of Issue: 22 February 2018**

**Certificate Number: UCRT18/1197**

Issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: [info@noise-and-vibration.co.uk](mailto:info@noise-and-vibration.co.uk)

Web: [www.noise-and-vibration.co.uk](http://www.noise-and-vibration.co.uk)

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K. Mistry

**CUSTOMER**      AWN Consulting Limited  
The Tecpro Building  
IDA Business and Technology Park  
Clonshaugh  
Dublin 17  
Ireland

**ORDER No**      1817      **Job No**      UKAS18/02097

**DATE OF RECEIPT**      12 February 2018

**PROCEDURE**      Calibration Engineer's Handbook section 3: verification of sound level meters to BS 7580:Part 1:1997

**IDENTIFICATION**      Sound level meter Brüel & Kjær type 2238-F serial No 2562663 connected via a preamplifier type ZC 0030 serial No 4227 to a half-inch microphone type 4188 serial No 2580720. Associated calibrator Brüel & Kjær type 4231 serial No 2394086 with a one-inch housing and adapter type UC 0210 for half-inch microphone.

**CALIBRATED ON**      22 February 2018

**PREVIOUS CALIBRATION**      Calibrated on 05 February 2016, Certificate No. 02560/2 issued by a UKAS accredited calibration laboratory No. 0801

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Bruel and Kjaer 2238 - SN: 2638292



## CERTIFICATE OF CALIBRATION



**Date of Issue: 09 November 2018**

Issued by:  
ANV Measurement Systems  
Beaufort Court  
17 Roebuck Way  
Milton Keynes MK5 8HL  
Telephone 01908 642846 Fax 01908 642814  
E-Mail: [info@noise-and-vibration.co.uk](mailto:info@noise-and-vibration.co.uk)  
Web: [www.noise-and-vibration.co.uk](http://www.noise-and-vibration.co.uk)

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**Certificate Number: UCRT18/2135**

Page 1 of 3 Pages

Approved Signatory

A handwritten signature in blue ink, appearing to read 'K. Mistry', written over a white background within a black-bordered box.

K. Mistry

**CUSTOMER**      AWN Consulting Limited  
The Tecpro Building  
Unit 30  
Clonshaugh Business & Technology Park  
Dublin 17  
D17 XD90

**ORDER No**      1911      **Job No**      UKAS18/11704

**DATE OF RECEIPT**      07 November 2018

**PROCEDURE**      Calibration Engineer's Handbook section 3: verification of sound level meters to BS 7580:Part 1:1997

**IDENTIFICATION**      Sound level meter Brüel & Kjær type 2238-C serial No 2638292 connected via a preamplifier type ZC 0030 serial No 3489 to a half-inch microphone type 4188 serial No 2008312. Associated calibrator Brüel & Kjær type 4231 serial No 2263026 with a one-inch housing and adapter type UC 0210 for half-inch microphone.

**CALIBRATED ON**      09 November 2018

**PREVIOUS CALIBRATION**      Calibrated on 21 August 2017, Certificate No. 03377/1 issued by a UKAS accredited calibration laboratory No. 0801

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Bruel and Kjaer 2238 – SN: 2562813



## CERTIFICATE OF CALIBRATION



**Date of Issue: 22 February 2018**

**Certificate Number: UCRT18/1198**

Issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: [info@noise-and-vibration.co.uk](mailto:info@noise-and-vibration.co.uk)

Web: [www.noise-and-vibration.co.uk](http://www.noise-and-vibration.co.uk)

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

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K. Mistry

**CUSTOMER**      AWN Consulting Limited  
The Tecpro Building  
IDA Business and Technology Park  
Clonshaugh  
Dublin 17  
Ireland

**ORDER No**      1821      **Job No**      UKAS18/02116

**DATE OF RECEIPT**      21 February 2018

**PROCEDURE**      Calibration Engineer's Handbook section 3: verification of sound level meters to BS 7580:Part 1:1997

**IDENTIFICATION**      Sound level meter Brüel & Kjær type 2238-D serial No 2562813 connected via a preamplifier type ZC 0030 serial No 4120 to a half-inch microphone type 4188 serial No 2555549. Associated calibrator Brüel & Kjær type 4231 serial No 2394086 with a one-inch housing and adapter type UC 0210 for half-inch microphone.

**CALIBRATED ON**      22 February 2018

**PREVIOUS CALIBRATION**      Calibrated on 05 December 2016, Certificate No. 02996/1 issued by a UKAS accredited calibration laboratory No. 0801

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