



APPENDIX 11-2

CALIBRATION CERTIFICATES



CERTIFICATE OF CALIBRATION




0653

Date of Issue: 20 April 2018

Certificate Number: UCRT18/1436

Issued by:
ANV Measurement Systems
Beaufort Court
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Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Page 1 of 2 Pages
Approved Signatory
 K. Mistry

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

Order No.

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

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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CERTIFICATE OF CALIBRATION



Date of Issue: 16 August 2018

Certificate Number: UCRT18/1839

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Page 1 of 2 Pages
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J. Harriman

Acoustic Noise and Vibration Ltd trading as ANV Measurement Systems

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AWN Consulting Limited
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Dublin 17
Ireland

Order No.	1869																												
Description	Sound Level Meter / Pre-amp / Microphone / Associated Calibrator																												
Identification	<table border="0"> <thead> <tr><th>Manufacturer</th><th>Instrument</th><th>Type</th><th>Serial No. / Version</th></tr> </thead> <tbody> <tr><td>Rion</td><td>Sound Level Meter</td><td>NL-52</td><td>00586944</td></tr> <tr><td>Rion</td><td>Firmware</td><td></td><td>1.9</td></tr> <tr><td>Rion</td><td>Pre Amplifier</td><td>NH-25</td><td>87063</td></tr> <tr><td>Rion</td><td>Microphone</td><td>UC-59</td><td>13407</td></tr> <tr><td>Rion</td><td>Calibrator</td><td>NC-74</td><td>34536109</td></tr> <tr><td></td><td>Calibrator adaptor type if applicable</td><td></td><td>NC-74-002</td></tr> </tbody> </table>	Manufacturer	Instrument	Type	Serial No. / Version	Rion	Sound Level Meter	NL-52	00586944	Rion	Firmware		1.9	Rion	Pre Amplifier	NH-25	87063	Rion	Microphone	UC-59	13407	Rion	Calibrator	NC-74	34536109		Calibrator adaptor type if applicable		NC-74-002
Manufacturer	Instrument	Type	Serial No. / Version																										
Rion	Sound Level Meter	NL-52	00586944																										
Rion	Firmware		1.9																										
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Rion	Microphone	UC-59	13407																										
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 15 August 2018 ANV Job No. UKAS18/08525
 Date Calibrated 16 August 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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CERTIFICATE OF CALIBRATION




0653

Date of Issue: 20 April 2018

Certificate Number: UCRT18/1432

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Page 1 of 2 Pages
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 Clonshaugh Business and Technology Park
 Dublin 17
 Ireland
 D17 NX50

Order No.

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

Manufacturer	Instrument	Type	Serial No. / Version
Rion	Sound Level Meter	NL-52	00186667
Rion	Firmware		1.9
Rion	Pre Amplifier	NH-25	76817
Rion	Microphone	UC-59	12812
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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CERTIFICATE OF CALIBRATION




0653

Date of Issue: 20 April 2018

Certificate Number: UCRT18/1440

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Page 1 of 2 Pages
Approved Signatory
 K. Mistry

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 The Tecpro Building
 Clonshaugh Business and Technology Park
 Dublin 17
 Ireland
 D17 NX50

Order No.																													
Description	Sound Level Meter / Pre-amp / Microphone / Associated Calibrator																												
Identification	<table border="0"> <thead> <tr> <th><i>Manufacturer</i></th> <th><i>Instrument</i></th> <th><i>Type</i></th> <th><i>Serial No. / Version</i></th> </tr> </thead> <tbody> <tr> <td>Rion</td> <td>Sound Level Meter</td> <td>NL-52</td> <td>00186669</td> </tr> <tr> <td>Rion</td> <td>Firmware</td> <td></td> <td>1.9</td> </tr> <tr> <td>Rion</td> <td>Pre Amplifier</td> <td>NH-25</td> <td>76819</td> </tr> <tr> <td>Rion</td> <td>Microphone</td> <td>UC-59</td> <td>12814</td> </tr> <tr> <td>Rion</td> <td>Calibrator</td> <td>NC-74</td> <td>34536109</td> </tr> <tr> <td></td> <td>Calibrator adaptor type if applicable</td> <td></td> <td>NC-74-002</td> </tr> </tbody> </table>	<i>Manufacturer</i>	<i>Instrument</i>	<i>Type</i>	<i>Serial No. / Version</i>	Rion	Sound Level Meter	NL-52	00186669	Rion	Firmware		1.9	Rion	Pre Amplifier	NH-25	76819	Rion	Microphone	UC-59	12814	Rion	Calibrator	NC-74	34536109		Calibrator adaptor type if applicable		NC-74-002
<i>Manufacturer</i>	<i>Instrument</i>	<i>Type</i>	<i>Serial No. / Version</i>																										
Rion	Sound Level Meter	NL-52	00186669																										
Rion	Firmware		1.9																										
Rion	Pre Amplifier	NH-25	76819																										
Rion	Microphone	UC-59	12814																										
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	<i>Dated</i>	<i>Certificate No.</i>	<i>Laboratory</i>
	Initial Calibration		

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CERTIFICATE OF CALIBRATION



Date of Issue: 06 August 2019

Certificate Number: UCRT19/1874

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ANV Measurement Systems
Beaufort Court
17 Roebuck Way
Milton Keynes MK5 8HL
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Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

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J. Harriman

Customer AWN Consulting
The Tecpro Building
IDA Business and Technology Park
Clonshaugh
Dublin 17

Order No. 1999

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

Identification

Manufacturer	Instrument	Type	Serial No. / Version
Rion	Sound Level Meter	NL-52	00575782
Rion	Firmware		2.0
Rion	Pre Amplifier	NH-25	65810
Rion	Microphone	UC-59	15093
Brüel & Kjær	Calibrator	4231	2460007
	Calibrator adaptor type if applicable		UC 0210

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 30 July 2019 ANV Job No. UKAS19/07502

Date Calibrated 06 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
	28 July 2017	UCRT17/1628	0653

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CERTIFICATE OF CALIBRATION




0653

Date of Issue: 20 April 2018

Certificate Number: UCRT18/1437

Issued by:
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Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Page 1 of 2 Pages
Approved Signatory

K. Mistry

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

Order No.
Description Sound Level Meter / Pre-amp / Microphone / Associated Calibrator
Identification

Manufacturer	Instrument	Type	Serial No. / Version
Rion	Sound Level Meter	NL-52	00186671
Rion	Firmware		1.9
Rion	Pre Amplifier	NH-25	76821
Rion	Microphone	UC-59	12817
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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CERTIFICATE OF CALIBRATION




0653

Date of Issue: 15 August 2018

Certificate Number: UCRT18/1831

Issued by:
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Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Page 1 of 2 Pages
Approved Signatory  J. Harriman

Customer AWN Consulting Limited
The Tecpro Building
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Dublin 17
Ireland

Order No. 1869
Description Sound Level Meter / Pre-amp / Microphone / Associated Calibrator
Identification

Manufacturer	Instrument	Type	Serial No. / Version
Rion	Sound Level Meter	NL-52	00586940
Rion	Firmware		1.9
Rion	Pre Amplifier	NH-25	87059
Rion	Microphone	UC-59	13402
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 13 August 2018 ANV Job No. UKAS18/08513
Date Calibrated 15 August 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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