

Ballyfeeny Green Energy Project



Environmental Impact Assessment Report Volume III

Appendix 10.2 – Noise Survey Details, Instrumentation, Personnel and Photos September 2025

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Noise Survey Details – Instrumentation, Personnel and Photos.

Summary of Noise Instrumentation Used

Location	Equipment	Serial Number
NML 1	Brüel & Kjær Type 2250 Light SLM	3008423
NML 2	Brüel & Kjær Type 2250 Light SLM	3024283
NML 3	Brüel & Kjær Type 2250 SLM	3006559
NML 4	Brüel & Kjær Type 2250 Light SLM	2620701
NML 5	Brüel & Kjær Type 2250 SLM	2611593
All	Brüel & Kjær Type 4231 Calibrator	2022652

Calibration Certificates:

RECEIVED: 15/09/2025



Brüel & Kjær

The Calibration Laboratory
Skodsborgvej 307, DK-2850 Nærum, Denmark





DANAK
CAL Reg.nr. 307

CERTIFICATE OF CALIBRATION

No: CDK2201345

Page 1 of 12

CALIBRATION OF

Sound Level Meter:	Brüel & Kjær Type 2250-Light	No: 3008423	Id: -
Microphone:	Brüel & Kjær Type 4950	No: 2697054	
Preamplifier:	Brüel & Kjær Type ZC-0032	No: 18175	
Supplied Calibrator:	None		
Software version:	BZ7222 Version 4.5.2	Pattern Approval:	PTB1.63-40478500 / 1.63-4078502
Instruction manual:	BE1712-22		

CUSTOMER

Enfonic Ltd
Unit 2A, Century Business Park
Dublin
D11 TOHV
Ireland

CALIBRATION CONDITIONS

Preconditioning: 4 hours at 23°C ± 3°C

Environment conditions: *See actual values in **Environmental conditions** sections.*

SPECIFICATIONS

The Sound Level Meter Brüel & Kjær Type 2250 has been calibrated in accordance with the requirements as specified in IEC6162-1:2013 class 1. Procedures from IEC 61672-3:2013 were used perform the periodic tests. The accreditation assures the traceability of the international units system SI.

PROCEDURE

The measurements have been performed with the assistance of Brüel & Kjær Sound Level Meter Calibration System 3630 with application software type 7763 (version 7.3 - DB: 7.30) by using procedure B&K proc 2250, 4189 (IEC61672:2013)

RESULTS

Calibration Mode: **Calibration as received.**

The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k = 2$ providing a level of confidence of approximately 95 %. The uncertainty evaluation has been carried out in accordance with EA-4/02 from elements originating from the standards, calibration method, effect of environmental conditions and any short time contribution from the device under calibration.

Date of calibration: 2022-05-25

Date of issue: 2022-05-25



Mikail Önder
Calibration Technician



Susanne Jørgensen
Approved Signatory

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Brüel & KjærThe Calibration Laboratory
Skodsborgvej 307, DK-2850 Nærum, DenmarkRECEIVED
15/09/2025**CERTIFICATE OF CALIBRATION**

No: CDK2208984

Page 1 of 12

CALIBRATION OF

Sound Level Meter:	Brüel & Kjær Type 2250-Light	No: 3024283	Id: -
Microphone:	Brüel & Kjær Type 4950	No: 3093044	
Preamplifier:	Brüel & Kjær Type ZC-0032	No: N/A	
Supplied Calibrator:	None		
Software version:	BZ7130 Version 4.7.4	Pattern Approval:	PTB1.63-40478500 / 1.63-4078502
Instruction manual:	BE1712-22		

CUSTOMEREnfonic Ltd
Unit 2A, Century Business Park
Dublin
D11 H0VT
Ireland**CALIBRATION CONDITIONS**

Preconditioning: 4 hours at 23°C ± 3°C
Environment conditions: See actual values in *Environmental conditions* sections.

SPECIFICATIONS

The Sound Level Meter Brüel & Kjær Type 2250 has been calibrated in accordance with the requirements as specified in IEC6162-1:2013 class 1. Procedures from IEC 61672-3:2013 were used to perform the periodic tests. The accreditation assures the traceability of the international units system SI.

PROCEDURE

The measurements have been performed with the assistance of Brüel & Kjær Sound Level Meter Calibration System 3630 with application software type 7763 (version 7.3 - DB: 7.30) by using procedure B&K proc 2250, 4189 (IEC61672:2013)

RESULTS

Calibration Mode: **Calibration as received.**

The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k = 2$ providing a level of confidence of approximately 95 %. The uncertainty evaluation has been carried out in accordance with EA-4/02 from elements originating from the standards, calibration method, effect of environmental conditions and any short time contribution from the device under calibration.

Date of calibration: 2022-07-21

Date of issue: 2022-07-21

Mikail Önder

Calibration Technician

Susanne Jørgensen

Approved Signatory

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Brüel & Kjær The Calibration Laboratory
Skodsborgvej 307, DK-2850 Nærum, Denmark

RECEIVED 15/09/2025

CERTIFICATE OF CALIBRATION

No: CDK2209384

Page 1 of 12

CALIBRATION OF

Sound Level Meter:	Brüel & Kjær Type 2250	No: 3006559	Id: -
Microphone:	Brüel & Kjær Type 4189	No: 3022867	
Preamplifier:	Brüel & Kjær Type ZC-0032	No: 05085	
Supplied Calibrator:	None		
Software version:	BZ7222 Version 4.7.5	Pattern Approval:	PTB1.63-40478500 / 1.63-4078502
Instruction manual:	BE1712-22		

CUSTOMEREnfonic Ltd
Unit 2A, Century Business Park
Dublin
D11 T0HV
Ireland**CALIBRATION CONDITIONS**

Preconditioning: 4 hours at 23°C ± 3°C
Environment conditions: See actual values in *Environmental conditions* sections.

SPECIFICATIONS

The Sound Level Meter Brüel & Kjær Type 2250 has been calibrated in accordance with the requirements as specified in IEC6162-1:2013 class 1. Procedures from IEC 61672-3:2013 were used to perform the periodic tests. The accreditation assures the traceability of the international units system SI.

PROCEDURE

The measurements have been performed with the assistance of Brüel & Kjær Sound Level Meter Calibration System 3630 with application software type 7763 (version 7.3 - DB: 7.30) by using procedure B&K proc 2250, 4189 (IEC61672:2013)

RESULTS

Calibration Mode: **Calibration as received.**

The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k = 2$ providing a level of confidence of approximately 95 %. The uncertainty evaluation has been carried out in accordance with EA-4/02 from elements originating from the standards, calibration method, effect of environmental conditions and any short time contribution from the device under calibration.

Date of calibration: 2022-10-19

Date of issue: 2022-10-19

Rikke Hansen
Calibration TechnicianJesper Bo Vedel
Approved Signatory

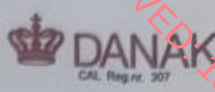
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RECEIVED 15/09/2025

Brüel & Kjær 

The Calibration Laboratory
Skodsborgvej 307, DK-2850 Nærum, Denmark





CAL. Reg. nr. 307

CERTIFICATE OF CALIBRATION

No: CDK2306967

Page 1 of 12

CALIBRATION OF

Sound Level Meter:	Brüel & Kjær Type 2250 Light	No: 2620701	Id: - 2654662
Microphone:	Brüel & Kjær Type 4950	No: 2606551	
Preamplifier:	Brüel & Kjær Type ZC-0032	No: 12941	
Supplied Calibrator:	None		
Software version:	BZ7222 Version 4.7.5	Pattern Approval:	PTB1.63-40478500 / 1.63-4078502
Instruction manual:	BE1712-22		

CUSTOMER

Enfonic Limited
Unit 9B, Swords Enterprise Park
Swords
Co. Dublin
Ireland
KT67 YX37

CALIBRATION CONDITIONS

Preconditioning: 4 hours at 23°C ± 3°C

Environment conditions: See actual values in *Environmental conditions* sections.

SPECIFICATIONS

The Sound Level Meter Brüel & Kjær Type 2250 has been calibrated in accordance with the requirements as specified in IEC6162-1:2013 class 1. Procedures from IEC 61672-3:2013 were used perform the periodic tests. The accreditation assures the traceability of the international units system SI.

PROCEDURE

The measurements have been performed with the assistance of Brüel & Kjær Sound Level Meter Calibration System 3630 with application software type 7763 (version 7.3 - DB: 7.30) by using procedure B&K proc 2250, 4189 (IEC61672:2013)

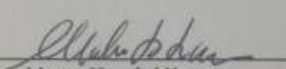
RESULTS

Calibration Mode: **Calibration as received.**

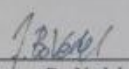
The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k = 2$ providing a level of confidence of approximately 95 %. The uncertainty evaluation has been carried out in accordance with EA-4/02 from elements originating from the standards, calibration method, effect of environmental conditions and any short time contribution from the device under calibration.

Date of calibration: 2023-11-22

Date of issue: 2023-11-22



Morten Høngård Hansen
Calibration Technician



Jesper Bo Vedel
Approved Signatory

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Brüel & Kjær The Calibration Laboratory
Skodsborgvej 307, DK-2850 Nærum, Denmark

CAL. Reg. nr. 307

CERTIFICATE OF CALIBRATION

No: CDK2206566

Page 1 of 12

CALIBRATION OF

Sound Level Meter:	Brüel & Kjær Type 2250	No: 2611593	Id: -
Microphone:	Brüel & Kjær Type 4189	No: 3005134	
Preamplifier:	Brüel & Kjær Type ZC-0032	No: 12941	
Supplied Calibrator:	None		
Software version:	BZ7222 Version 4.7.5	Pattern Approval:	PTB1.63-40478500 / 1.63-4078502
Instruction manual:	BE1712-22		

CUSTOMEREnfonic Ltd
Unit 2A, Century Business Park
Dublin
D11 T0HV
Ireland**CALIBRATION CONDITIONS**

Preconditioning: 4 hours at $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$
Environment conditions: See actual values in *Environmental conditions* sections.

SPECIFICATIONS

The Sound Level Meter Brüel & Kjær Type 2250 has been calibrated in accordance with the requirements as specified in IEC6162-1:2013 class 1. Procedures from IEC 61672-3:2013 were used to perform the periodic tests. The accreditation assures the traceability of the international units system SI.

PROCEDURE

The measurements have been performed with the assistance of Brüel & Kjær Sound Level Meter Calibration System 3630 with application software type 7763 (version 7.3 - DB: 7.30) by using procedure B&K proc 2250, 4189 (IEC61672:2013)

RESULTS

Calibration Mode: **Calibration as received.**

The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k = 2$ providing a level of confidence of approximately 95 %. The uncertainty evaluation has been carried out in accordance with EA-4/02 from elements originating from the standards, calibration method, effect of environmental conditions and any short time contribution from the device under calibration.

Date of calibration: 2022-08-22

Date of issue: 2022-08-22


Morten Høngård Hansen
Calibration Technician
Jesper Bo Vedel
Approved Signatory

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Certificate of Calibration

Issued by University of Salford (Acoustic Calibration Laboratory)
UKAS ACCREDITED CALIBRATION LABORATORY NO. 0801

Page 1 of 2

APPROVED SIGNATORIES

Claire Lomax [] Sean Furlong []
Harry Bulger [x] Daniel Wong-McSweeney []


acoustic calibration laboratory

The University of Salford, Salford, Greater Manchester, M5 4WT, UK
<http://www.acoustics.salford.ac.uk>
t 0161 295 3030/0161 295 3319 f 0161 295 4456 e c.lomax1@salford.ac.uk



0801

University of
Salford
MANCHESTER

RECEIVED: 15/09/2025

Certificate Number: 06198/1

Date of Issue: 30 April 2023

CALIBRATION OF A SOUND CALIBRATOR

FOR: Enfonic Ltd
Unit 2A
Century Business Park
Dublin
D11 T0HV

FOR THE ATTENTION OF: Bruna Barros

DESCRIPTION: Calibrator with housing for one-inch microphones and adaptor type UC 0210 for half-inch microphones.

MANUFACTURER: B&K

TYPE: 4231

SERIAL NUMBER: 2022652

DATE RECEIVED: 31 March 2023

DATE OF CALIBRATION: 30 April 2023

LOCATION OF CALIBRATION: Acoustic Calibration Laboratory,
Newton G31, University of Salford.

TEST PROCEDURE: CTP06 (Laboratory Manual)

Test Engineer (initial): GP	Name: Gary Phillips
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Results in this certificate relate only to instruments tested.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to the units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full except with the prior written approval of the issuing laboratory.

Noise Survey Personnel:

David Courtney, BEng, MIOA (Acoustic Consultant) graduated with a BEng. in Mechatronic Engineering from DCU in 2017 and qualified with IOA Diploma in Acoustics and Noise Control (2019) & Certificate in Environmental Noise Measurements (2017). He undertakes all types of noise and vibration surveys in relation to wind turbines planning and compliance, IPPC & IE compliance, BS4142, BS5228 and BS8233 assessments, traffic noise, construction, building acoustics and occupational assessments. He also manages our long-term monitoring sites and provides technical support to our hire services. He has considerably expertise in the assessment of wind turbine noise and conducted many similar impact assessments for EIARs.

Aishaani Sharma, (Junior Consultant) Aishaani graduated with an MSc in Environmental Science from Trinity College in 2024 and holds a BSc (Hons.) in Biotechnology. Since starting with Enfonc in May 2024 she has undertaken several noise surveys including baseline surveys in relation to wind farms. She provides expertise in relation to impacts on biodiversity and manages quality control in relation to EIARs including for several wind farms.

Noise Survey Photos:

NML1



NML 2



NML 3



NML 4



NML 5

