

Fanellan Hub 400 kV Substation and Converter

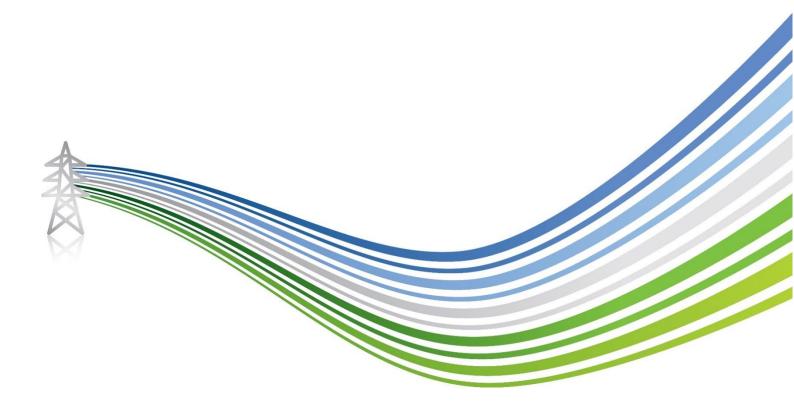
**Station** 

**Environmental Impact Assessment Report** 

**Volume 4 | Technical Appendices** 

**Appendix 14.7 – Calibration Certificate NL52 00175536** 

February 2025





## **TECHNICAL APPENDIX 14: NOISE IMPACT ASSESSMENT**

## 14.7 Calibration Certificate NL52 00175536



## CERTIFICATE OF CALIBRATION





0653

Date of Issue: 25 May 2022 Calibrated at & Certificate 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 Web: www.noise-and-vibration.co.uk

Certificate Number: UCRT22/1695

K. Mistry

Wood Group Customer

> St. Vincent Plaza (Floor 2) 319 St. Vincent Street

Glasgow G2 5LP

Order No. 26010406

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

Identification Manufacturer Instrument Serial No. / Version Type 00175536 Rion Sound Level Meter NL-52 Rion

Firmware 2.0 NH-25 65638 Rion Pre Amplifier UC-59 Rion Microphone 13128 Rion Calibrator NC-74 34178103

NC-74-002 Calibrator adaptor type if applicable

Performance Class

TP 10. SLM 61672-3:2013 Test Procedure

Procedures from IEC 61672-3:2013 were used to perform the periodic tests.

Type Approved to IEC 61672-1:2013 Yes

If YES above there is public evidence that the SLM has successfully completed the

applicable pattern evaluation tests of IEC 61672-2:2013

UKAS22/05346 Date Received 23 May 2022 ANV Job No.

Date Calibrated 25 May 2022

The sound level meter submitted for testing has successfully completed the periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organisation responsible for approving the results of patternevaluation tests performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 specifications of IEC 61672-1:2013.

Previous Certificate Dated Certificate No. Laboratory 26 May 2020 UCRT20/1449 0653

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	OF CALIE	BRATION		•	Certifica			
				L	UC	RT22/10	595	
JKAS Accredited Calib	ration Laboratory I	No. 0653			Page 2	of	2	Pages
Sound Level Meter Inst	ruction manual an	d data used to adj	ust the	sound	l levels in	dicated.		
SLM instruction manual tit SLM instruction manual re		Description for IEC No. 56034 21-		2-1 Source	Rio			
Date provided or internet		19 March 202		Source	: KIO	1		
ate provided or internet	Case Corrections			Mic	Pressure	to Free F	ield Co	orrections
Incertainties provided	Yes	Yes				Yes		
Fotal expanded uncertaint			72-1:20°	13	YES			
Specified or equivalent Ca		Specified						
Customer or Lab Calibrato Calibrator adaptor type if a		Customers Calib NC-74-002						
Calibrator cal. date	аррисавіє	24 May 2022						
Calibrator cert. number		UCRT22/168						
Calibrator cal cert issued I	by Lab	0653						
Calibrator SPL @ STP		94.02	dB	Calibra	tion refere	nce sour	nd pres	sure level
Calibrator frequency		1001.97	Hz	Calibra	tion check	frequen	су	
Reference level range		Single	dB					
Accessories used or corre					Vind Shiel			
Note - The Extension Cab Environmental conditions			pre-am		s calibratio	on.		
anti-orimental conditions	Temperature	Start 24.65	$\vdash$	24.37	±	0.30	°C.	l
	Humidity	48.5	$\vdash$	48.7			%RH	
	Ambient Pressure	100.05		100.05	±	0.03	kPa	
ndication at the Calibratio	on Check Frequency	1						
Initial indicated level				dicated		94.0		dB
Uncertainty of calibrator u	sed for Indication at	the Calibration Che	eck Free	quency:	±	0.10		dB
Self Generated Noise Microphone installed -	Less Than 19	9.1 dB A Weig	ahtina	ı				
Microphone replaced with				Range i	indicated	7		
Weighting	A	l c	2	go i	Z	-	l	
	3.1 dB UR		UR	23.		UR	1	
					ormance to	a requir	ement	
Fine reported expanded un a coverage probability of a JKAS requirements. Additional Comments	orted for information ncertainty is based o approximately 95%.	only and not used t	tainty m	ss confo	d by a covo	erage fac	tor <i>k=</i> 2 ccordar	2, providing nce with
Self Generated Noise reported expanded un a coverage probability of a JKAS requirements.	orted for information ncertainty is based o approximately 95%.	only and not used to on a standard uncert The uncertainty eva certificate only relati	tainty maluation	nultiplied h has be	d by a covo	erage fac d out in a as identif	ttor <i>k</i> =2 ccordar ied abo	2, providing nce with ove.