

UMS SUMMARY TEST REPORT

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ISSUED BY:
CRANAGE EMC TESTING LIMITED
STABLE COURT
OAKLEY
MARKET DRAYTON
SHROPSHIRE, TF9 4AG



Report No: **U0067R** Date of Issue: **31st May 2016**

This document summarises the results of testing to ascertain the appropriate Elexon Charge Codes for inclusion in BSCP520.

Tested & Inspected for: **ANV Measurement Systems,
17 Roebuck Way,
Knowlhill,
Milton Keynes,
MK5 8HL.**

Test Dates: **20th May 2016 – 31st May 2016**
Initial Receipt Date of Test Item: **17th May 2016**

EUT 1

Test Item Description: **Web-based Noise & Weather Monitoring System with Meanwell PSU**
Tested on behalf of: **ANV Measurement Systems**
Model Name: **LiveLeq (Noise), LiveMet (Weather) & HLG-40H-12A (PSU)**
Serial Number: **264529 (Noise), 359.1015.0701.211 (Weather) & HB62371683 (PSU)**
Site: **04160194**

EUT 2

Test Item Description: **Web-based Noise & Weather Monitoring System with Meanwell PSU**
Tested on behalf of: **ANV Measurement Systems**
Model Name: **LiveLeq (Noise), LiveMet (Weather) & HLG-40H-12A (PSU)**
Serial Number: **264528 (Noise), 309.1114.0701.040 (Weather) & HB5B839622 (PSU)**
Site: **04160193**

EUT 3

Test Item Description: **Web-based Noise & Weather Monitoring System with Meanwell PSU**
Tested on behalf of: **ANV Measurement Systems**
Model Name: **LiveLeq (Noise), LiveMet (Weather) & HLG-40H-12A (PSU)**
Serial Number: **264531 (Noise), 026.0215.0701.040 (Weather) & HB52940580 (PSU)**
Site: **05160196**

EUT 4

Test Item Description: **Web-based Noise & Weather Monitoring System with Meanwell PSU**
Tested on behalf of: **ANV Measurement Systems**
Model Name: **LiveLeq (Noise), LiveMet (Weather) & HLG-40H-12A (PSU)**
Serial Number: **264530 (Noise), 020.0215.0701.040 (Weather) & HB5B839019 (PSU)**
Site: **05160197**

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EUT 5

Test Item Description:	Web-based Noise & Weather Monitoring System with Meanwell PSU
Tested on behalf of:	ANV Measurement Systems
Model Name:	LiveLeq (Noise), LiveMet (Weather) & HLG-40H-12A (PSU)
Serial Number:	264527 (Noise), 302.0115.0701.040 (Weather) & RB20093915 (PSU)
Site:	05160198

Approved Signatories: M. Richens - Technical Director


APPROVED SIGNATORY

Verification Signatories: K. Richens – Managing Director


VERIFICATION SIGNATORY

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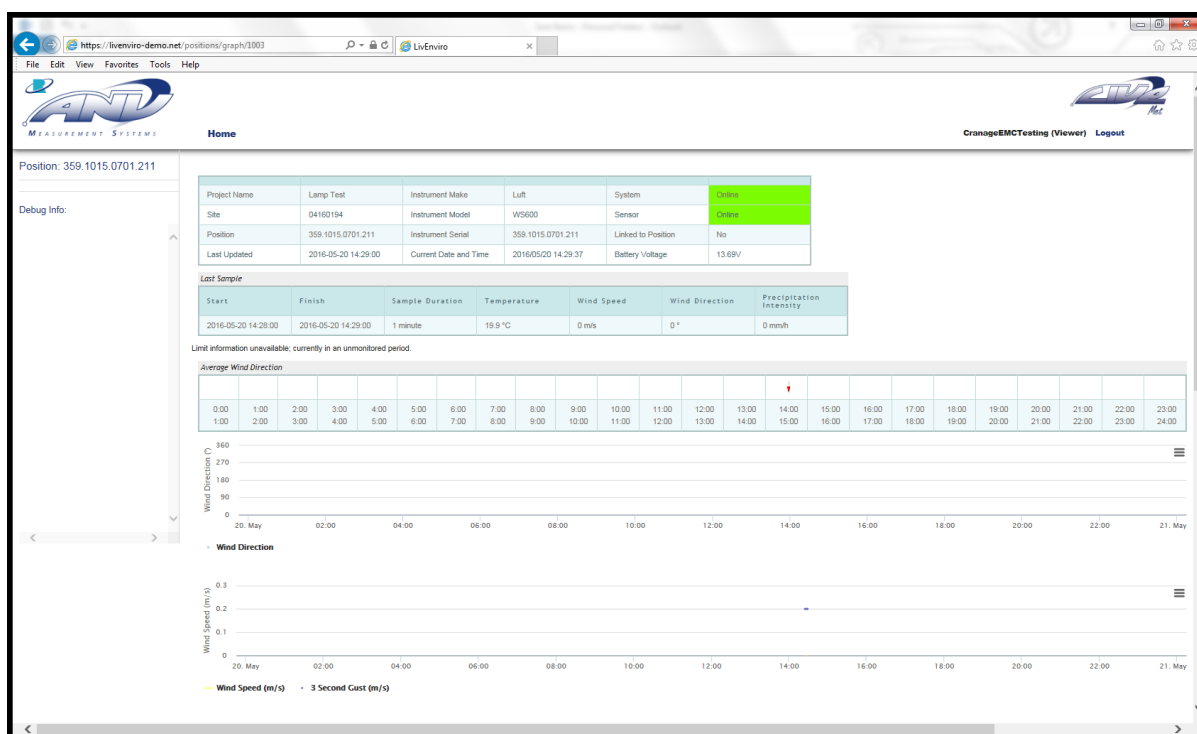


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Test Condition: - Stabilisation period of 15 minutes given prior to measurements at 230V 50Hz. Measurements were subsequently taken after 15 minutes at each voltage level. This was found to be an adequate time window for the purpose of the test measurements.

All results are rounded to 2 decimal places.

Mode 1: EUT powered and connected via 3G to web interface. Continuous logging of dB and wind speed throughout measurements. Web based interfaced shown below with both noise and weather online and measuring.



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The screenshot displays the IREMIRO web interface. At the top, there is a navigation bar with 'Home' and 'CranageEMCTesting (Viewer) Logout'. Below this, there are two main data tables. The first table, 'Status Summary - Noise', lists measurement data for various sites and projects. The second table, 'Status Summary - Weather', lists weather-related data. Both tables include columns for Account, Project, Site, Position, Last Data Update, Last Status Update, Measuring, Exceedances, Instrument Supply, PSU Voltage, and SD Card. The interface also shows a footer with version information: 'Iremiro v4.0.0-dev-03.0.3 C1 3.0.6' and 'Current IP: 43.79.159.146'.

Account	Project	Site	Position	Last Data Update	Last Status Update	Measuring	Exceedances	Instrument Supply	PSU Voltage	SD Card
Lamp	Lamp Test	04160193	264528	2016/05/17 11:47:01	2016/05/17 11:46:59	Not Connected	6	On	12.91V	469 Mb remaining
Lamp	Lamp Test	04160194	264529	2016/05/20 14:28:00	2016/05/20 14:28:54	Yes	5	On	13.48V	469 Mb remaining
Lamp	Lamp Test	05160196	264531	2016/05/17 11:47:00	2016/05/17 11:46:45	Not Connected	4	On	12.85V	469 Mb remaining
Lamp	Lamp Test	05160197	264530	2016/05/17 11:47:00	2016/05/17 11:46:59	Not Connected	4	On	12.47V	469 Mb remaining
Lamp	Lamp Test	05160198	264527	2016/05/17 11:47:00	2016/05/17 11:46:53	Not Connected	5	On	11.83V	469 Mb remaining

Account	Project	Site	Position	Last Data Update	Online	Measuring	Battery Voltage
Lamp	Lamp Test	04160193	308.1114.0701.040	2016-05-17 11:46:00	No	Yes	12.85V
Lamp	Lamp Test	04160194	359.1015.0701.211	2016-05-20 14:28:00	Yes	Yes	13.54V
Lamp	Lamp Test	05160196	026.0215.0701.040	2016-05-17 11:46:00	No	Yes	12.91V
Lamp	Lamp Test	05160197	020.0215.0701.040	2016-05-17 11:46:00	No	Yes	12.49V
Lamp	Lamp Test	05160198	302.0115.0701.040	2016-05-17 11:46:00	No	Yes	11.83V

Iremiro v4.0.0-dev-03.0.3 C1 3.0.6
Current IP: 43.79.159.146

Mode 2: EUT powered and connected via 3G to web interface. Continuous logging of dB throughout measurements. Web based interface used to verify noise functionality is online and measuring.

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Mode 1

Watts					
Voltage (Vrms)	Sample No.				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	8.71	9.15	10.04	8.94	8.80
220	9.06	9.22	9.67	8.66	8.62
230	9.41	9.14	10.77	8.81	8.67
240	9.04	8.94	10.22	8.76	7.88
250	8.66	8.75	10.34	9.26	7.83
VA					
Voltage (Vrms)	Sample No.				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	50.01	44.58	42.76	45.29	43.70
220	43.90	47.24	44.55	47.52	45.94
230	46.60	49.69	48.31	50.30	48.66
240	49.56	52.00	49.66	52.94	50.22
250	51.65	54.25	52.06	55.99	52.65

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Mode 2

Watts					
Voltage (Vrms)	Sample No.				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	8.83	8.00	9.56	8.49	7.02
220	9.68	8.12	9.98	9.04	7.00
230	10.11	8.36	9.61	8.74	7.04
240	8.34	8.27	9.59	8.39	7.09
250	10.18	8.05	9.67	8.47	7.11
VA					
Voltage (Vrms)	Sample No.				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	44.39	43.58	40.97	44.02	42.77
220	47.90	46.28	43.49	47.10	45.35
230	50.87	49.08	45.04	49.35	48.01
240	51.56	51.50	47.32	51.41	50.63
250	56.03	53.75	49.54	53.98	53.17

Test Equipment

Asset Number	Description	Calibration Date	Calibration Due
AN288	Power Source	-	-
AN1162	Power Analyser	27/07/2015	26/07/2016

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Photographs of the Test Item



Above: Equipment under test in mode 1



Above: Equipment under test in mode 1

Measurement Uncertainty

The 95 % confidence measurement uncertainty for AC Power (Analyser) is 0.17%.