

# UMS SUMMARY TEST REPORT

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



Report No: **U0046R.01**

Date of Issue: **23<sup>rd</sup> January 2015**

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

Tested & Inspected for: **Turnkey Instruments,  
1 & 2 Dalby Court, Gadbrook Business Centre,  
Northwich, Cheshire, CW9 7TN.**

Test Date: **20<sup>th</sup> – 22<sup>th</sup> January, 2015**  
Receipt Date of Test Item: **20<sup>th</sup> January, 2015**

## **Sample 1**

Test Item Description: **Turnkey environmental monitor operating from a 12 Volt  
60Watt PSU**  
Model Name: **Osiris**  
Serial Number: **TN03493**  
Notes: **Incorporates Meanwell Driver LPV-60-12TF (S/N: HB4AA85599)**

## **Sample 2**

Test Item Description: **Turnkey environmental monitor operating from a 12 Volt  
60Watt PSU**  
Model Name: **Osiris**  
Serial Number: **TN03491**  
Notes: **Incorporates Meanwell Driver LPV-60-12TF (S/N: HB4AA85592)**

## **Sample 3**

Test Item Description: **Turnkey environmental monitor operating from a 12 Volt  
60Watt PSU**  
Model Name: **Osiris**  
Serial Number: **TN03492**  
Notes: **Incorporates Meanwell Driver LPV-60-12TF (S/N: HB4AA85590)**

## **Sample 4**

Test Item Description: **Turnkey environmental monitor operating from a 12 Volt  
60Watt PSU**  
Model Name: **Osiris**  
Serial Number: **TN03490**  
Notes: **Incorporates Meanwell Driver LPV-60-12TF (S/N: HB4AA85586)**

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## Sample 5

Test Item Description:	<b>Turnkey environmental monitor operating from a 12 Volt 60Watt PSU</b>
Model Name:	<b>Osiris</b>
Serial Number:	<b>TN03494</b>
Notes:	<b>Incorporates Meanwell Driver LPV-60-12TF (S/N: HB4AA85597)</b>

Approved Signatories: M. Richens - Technical Director

  
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APPROVED SIGNATORY

Verification Signatories: R. Flynn - Test Engineer

  
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VERIFICATION SIGNATORY

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Mode of Operation: The test item was powered 'ON' and set to full power output (configured by the manufacturer). A photograph showing the test item can be found on page 4.

Unit under test: - Units were powered up for 90 minutes to stabilise.

Test Condition: - Measurements were taken after 15 minutes at each voltage level. This was found to be adequate time for stabilisation.

All results are rounded to 2 decimal places.

## Mode 1

Watts					
Voltage (Vrms)	Sample No.				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	24.54	24.06	24.13	24.49	24.44
220	24.60	24.14	24.23	24.85	24.60
230	24.65	24.30	24.34	25.08	24.72
240	24.62	24.55	24.47	25.36	24.83
250	24.67	24.58	24.55	25.56	24.87

VA					
Voltage (Vrms)	Sample No.				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	58.93	57.74	56.88	57.80	57.57
220	60.13	59.13	58.24	59.73	59.08
230	61.34	60.74	59.60	61.42	60.47
240	62.36	62.41	60.96	63.30	61.82
250	63.51	63.50	62.16	64.96	62.99

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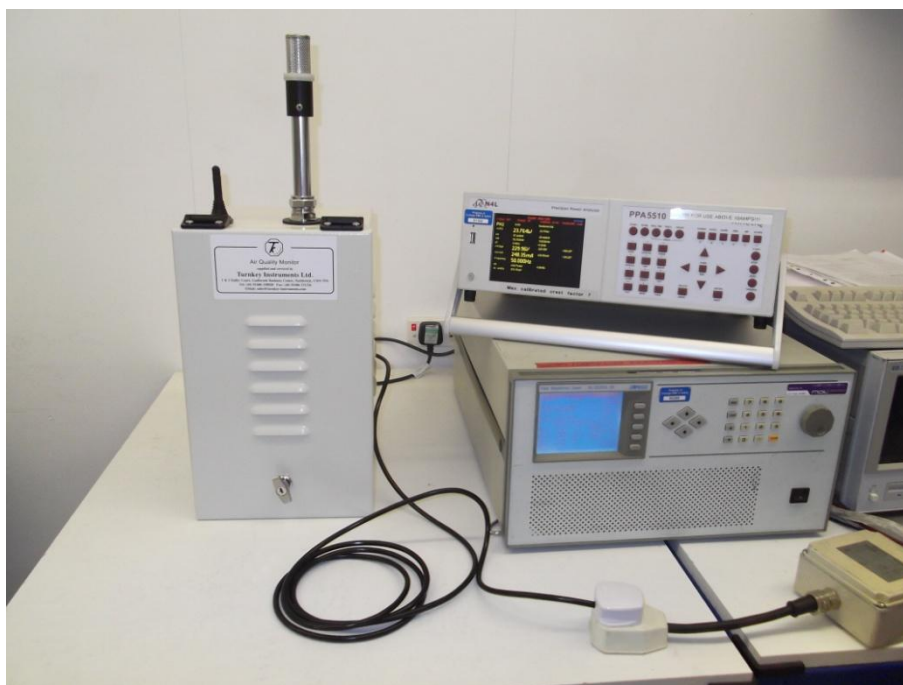
Date of Issue: **23<sup>rd</sup> January 2015**

**Ambient temperature range recorded during test period:**  
20°C

## Test Equipment

Asset Number	Description	Calibration Date	Calibration Due
AN288	Power Source	-	-
AN1162	Power Analyser	16/07/2014	15/07/2015
AN452	Timer	-	-

## Photographs of the Test Item



**Above:** Equipment under test.

## Measurement Uncertainty

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