

# UMS SUMMARY TEST REPORT

PAGE 1 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

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

Tested & Inspected for: **Aldridge Traffic Systems,  
Unit D3,  
Cowlairs,  
Southglade Business Park,  
off Rigley Drive,  
Top Valley,  
Nottingham,  
NG5 9RA.**

Test Dates: **20<sup>th</sup> September 2017 – 5<sup>th</sup> October 2017.**  
Initial Receipt Date of Test Item: **5<sup>th</sup> September 2017**

## **Sample 1**

Test Item Description: **Pedestrian countdown timer used at traffic signals  
(Extra Low Voltage Type)**  
Tested on behalf of: **Aldridge Traffic Systems**  
Model Number: **PCaTS**  
Serial Number: **RU6993-1608-000270**

## **Sample 2**

Test Item Description: **Pedestrian countdown timer used at traffic signals  
(Extra Low Voltage Type)**  
Tested on behalf of: **Aldridge Traffic Systems**  
Model Number: **PCaTS**  
Serial Number: **RU6993-1705-000378**

## **Sample 3**

Test Item Description: **Pedestrian countdown timer used at traffic signals  
(Extra Low Voltage Type)**  
Tested on behalf of: **Aldridge Traffic Systems**  
Model Number: **PCaTS**  
Serial Number: **RU6993-1609-000156**

## **Sample 4**

Test Item Description: **Pedestrian countdown timer used at traffic signals  
(Extra Low Voltage Type)**  
Tested on behalf of: **Aldridge Traffic Systems**  
Model Number: **PCaTS**  
Serial Number: **RU6993-1504-000016**

# UMS SUMMARY TEST REPORT

PAGE 2 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Sample 5

Test Item Description: **Pedestrian countdown timer used at traffic signals  
(Extra Low Voltage Type)**  
Tested on behalf of: **Aldridge Traffic Systems**  
Model Number: **PCaTS**  
Serial Number: **RU6993-1305-00106**

## Sample 6

Test Item Description: **Pedestrian countdown timer used at traffic signals  
(Low Voltage Type)**  
Tested on behalf of: **Aldridge Traffic Systems**  
Model Number: **PCaTS**  
Serial Number: **RU6992-1305-000140**

## Sample 7

Test Item Description: **Pedestrian countdown timer used at traffic signals  
(Low Voltage Type)**  
Tested on behalf of: **Aldridge Traffic Systems**  
Model Number: **PCaTS**  
Serial Number: **RU6992-1702-000200**

## Sample 8

Test Item Description: **Pedestrian countdown timer used at traffic signals  
(Low Voltage Type)**  
Tested on behalf of: **Aldridge Traffic Systems**  
Model Number: **PCaTS**  
Serial Number: **RU6992-1312-00090**

## Sample 9

Test Item Description: **Pedestrian countdown timer used at traffic signals  
(Low Voltage Type)**  
Tested on behalf of: **Aldridge Traffic Systems**  
Model Number: **PCaTS**  
Serial Number: **RU6992-1210-000098**

# UMS SUMMARY TEST REPORT

PAGE 3 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Sample 10

Test Item Description: **Pedestrian countdown timer used at traffic signals  
(Low Voltage Type)**  
Tested on behalf of: **Aldridge Traffic Systems**  
Model Number: **PCaTS**  
Serial Number: **RU6992-1702-000201**

**Note:** During the measurements (unless stated) a PCaTS test box was used to simulate signals sent to the PCaTS and provide 48V DC power/48V AC or 230V AC (switched depending on ELV or LV model type). This is a representative of a typical system that the PCaTS would be connected to. The PCaTS test box consisting of the following components:

### Transformer

Model **TRP-M42V**  
Input **240V**  
Output **42V ac**  
Rating **50VA**


### Power Supply Unit

Manufacturer **MEANWELL**  
Type of power supply unit **Switched-mode**  
Power **60W**  
Set Output voltage **48V DC (48...56V DC)**  
Output current **1.25A**  
Supply voltage **85...264V AC, 120...370V DC**

### Programmable Logic Controller

Manufacturer **Omron Industrial Automation**  
Model **ZEN-10C1AR-A-V2**

Approved Signatories: **M. Richens - Technical Director**

  
APPROVED SIGNATORY

Verification Signatories: **K. Richens – Managing Director**

  
VERIFICATION SIGNATORY

# UMS SUMMARY TEST REPORT

PAGE 4 OF 17

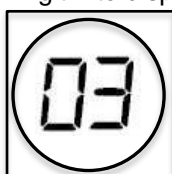
ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

**Mode of Operation 1:** Average Segments 'On' state or also known as 'Display' mode, equating to the following configuration:

Digit 1 to display 0 = 6 segments  
Digit 2 to display 3 = 5 segments



210V – 250V AC mains (50Hz) supplied to the test box, test box selected in the LV mode (230V AC 50Hz Signal Input) to the LV PCaTS unit or ELV mode (48V AC 50Hz Signal Input) to the ELV PCaTS unit. This mode simulated bright mode. Measurements were taken every 15 minutes.

**Mode of Operation 2:** Display in a 'Blank' mode i.e. no LED digits displayed. 210V – 250V AC mains (50Hz) supplied to the test box, test box selected in the LV mode (230V AC 50Hz Signal Input) to the LV PCaTS unit or ELV mode (48V AC 50Hz Signal Input) to the ELV PCaTS unit. This mode simulated bright mode. Measurements were taken every 15 minutes.

**Mode of Operation 3:** Average Segments 'On' state or also known as 'Display' mode, equating to the following configuration:

Digit 1 to display 0 = 6 segments  
Digit 2 to display 3 = 5 segments



150V – 170V AC mains (50Hz) supplied to the test box to simulate dimmed mode, test box selected in the LV mode to the LV PCaTS unit or ELV mode (48V AC 50Hz Signal Input) to the ELV PCaTS unit. This mode simulated dim mode. Measurements were taken every 15 minutes.

**Mode of Operation 4:** Display in a 'Blank' mode i.e. no LED digits displayed. 150V – 170V AC mains (50Hz) supplied to the test box, test box selected in the LV mode (230V AC 50Hz Signal Input) to the LV PCaTS unit or ELV mode (48V AC 50Hz Signal Input) to the ELV PCaTS unit. This mode simulated dim mode. Measurements were taken every 15 minutes.

**Mode of Operation 5:** 150V – 170V AC (50Hz) mains supplied (Voltage increased in 5V AC increments) to the PCaTS test box only. This voltage range simulated that of a dimmed mode of operation. No PCaTS signal unit attached to the output of the test box. Measurements were taken every 15 minutes. This mode is for information only.

# UMS SUMMARY TEST REPORT

PAGE 5 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

**Mode of Operation 6:** 210V – 250V AC (50Hz) mains supplied (Voltage increased in 10V AC increments) to the PCaTS test box only. This voltage range simulated that of a bright mode of operation. No PCaTS signal unit attached to the output of the test box. Measurements were taken every 15 minutes. This mode is for information only.

All results are rounded to 2 decimal places.

# UMS SUMMARY TEST REPORT

PAGE 6 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Mode 1 (ELV Units)

| Watts             |            |          |          |          |          |
|-------------------|------------|----------|----------|----------|----------|
| Voltage<br>(Vrms) | Sample No. |          |          |          |          |
|                   | Sample 1   | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
| 210               | 11.01      | 11.18    | 11.10    | 11.00    | 11.10    |
| 220               | 11.86      | 12.01    | 11.95    | 11.84    | 12.01    |
| 230               | 12.77      | 12.95    | 12.87    | 12.75    | 12.87    |
| 240               | 13.77      | 13.58    | 13.77    | 13.76    | 13.89    |
| 250               | 14.78      | 14.51    | 14.81    | 14.89    | 15.06    |
| VA                |            |          |          |          |          |
| Voltage<br>(Vrms) | Sample No. |          |          |          |          |
|                   | Sample 1   | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
| 210               | 23.33      | 23.67    | 22.99    | 23.18    | 22.66    |
| 220               | 25.19      | 25.53    | 25.04    | 25.03    | 24.76    |
| 230               | 27.53      | 27.87    | 27.31    | 27.22    | 26.82    |
| 240               | 30.26      | 29.03    | 29.79    | 29.94    | 29.54    |
| 250               | 33.76      | 32.83    | 33.64    | 33.51    | 33.13    |

# UMS SUMMARY TEST REPORT

PAGE 7 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Mode 2 (ELV Units)

| Watts             |            |          |          |          |          |
|-------------------|------------|----------|----------|----------|----------|
| Voltage<br>(Vrms) | Sample No. |          |          |          |          |
|                   | Sample 1   | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
| 210               | 7.60       | 7.59     | 7.63     | 7.56     | 7.60     |
| 220               | 8.03       | 8.03     | 8.04     | 7.99     | 8.05     |
| 230               | 8.49       | 8.53     | 8.51     | 8.46     | 8.49     |
| 240               | 9.05       | 9.03     | 9.03     | 9.00     | 9.03     |
| 250               | 9.69       | 9.67     | 9.66     | 9.65     | 9.67     |
| VA                |            |          |          |          |          |
| Voltage<br>(Vrms) | Sample No. |          |          |          |          |
|                   | Sample 1   | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
| 210               | 22.85      | 23.11    | 22.38    | 22.71    | 22.10    |
| 220               | 24.53      | 24.80    | 24.32    | 24.38    | 24.03    |
| 230               | 26.55      | 26.95    | 26.41    | 26.37    | 25.91    |
| 240               | 29.24      | 29.03    | 28.74    | 28.92    | 28.44    |
| 250               | 32.63      | 32.83    | 32.48    | 32.31    | 31.83    |

# UMS SUMMARY TEST REPORT

PAGE 8 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Mode 1 (LV Units)

| Watts             |            |          |          |          |           |
|-------------------|------------|----------|----------|----------|-----------|
| Voltage<br>(Vrms) | Sample No. |          |          |          |           |
|                   | Sample 6   | Sample 7 | Sample 8 | Sample 9 | Sample 10 |
| 210               | 11.27      | 11.25    | 11.34    | 11.24    | 11.26     |
| 220               | 11.71      | 11.69    | 11.77    | 11.69    | 11.70     |
| 230               | 12.20      | 12.18    | 12.20    | 12.17    | 12.18     |
| 240               | 12.80      | 12.74    | 12.77    | 12.75    | 12.76     |
| 250               | 13.48      | 13.41    | 13.43    | 13.40    | 13.41     |
| VA                |            |          |          |          |           |
| Voltage<br>(Vrms) | Sample No. |          |          |          |           |
|                   | Sample 6   | Sample 7 | Sample 8 | Sample 9 | Sample 10 |
| 210               | 28.46      | 28.65    | 27.69    | 28.84    | 29.08     |
| 220               | 30.16      | 30.30    | 29.13    | 30.40    | 30.65     |
| 230               | 32.00      | 32.13    | 31.77    | 32.21    | 32.48     |
| 240               | 34.46      | 34.42    | 34.24    | 34.57    | 34.83     |
| 250               | 37.58      | 37.49    | 37.28    | 37.59    | 37.87     |



# UMS SUMMARY TEST REPORT

PAGE 9 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Mode 2 (LV Units)

| Watts             |            |          |          |          |           |
|-------------------|------------|----------|----------|----------|-----------|
| Voltage<br>(Vrms) | Sample No. |          |          |          |           |
|                   | Sample 6   | Sample 7 | Sample 8 | Sample 9 | Sample 10 |
| 210               | 7.51       | 7.50     | 7.60     | 7.53     | 7.52      |
| 220               | 8.00       | 8.00     | 8.09     | 8.03     | 8.01      |
| 230               | 8.54       | 8.54     | 8.57     | 8.57     | 8.55      |
| 240               | 9.20       | 9.16     | 9.19     | 9.20     | 9.18      |
| 250               | 9.93       | 9.89     | 9.91     | 9.91     | 9.89      |
| VA                |            |          |          |          |           |
| Voltage<br>(Vrms) | Sample No. |          |          |          |           |
|                   | Sample 6   | Sample 7 | Sample 8 | Sample 9 | Sample 10 |
| 210               | 21.47      | 21.68    | 20.91    | 21.96    | 22.13     |
| 220               | 23.35      | 23.51    | 22.54    | 23.69    | 23.88     |
| 230               | 25.42      | 25.57    | 25.26    | 25.75    | 25.94     |
| 240               | 28.20      | 28.17    | 28.04    | 28.39    | 28.60     |
| 250               | 31.72      | 31.64    | 31.46    | 31.80    | 32.01     |

# UMS SUMMARY TEST REPORT

PAGE 10 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Mode 3 (ELV Units)

| Watts             |            |          |          |          |          |
|-------------------|------------|----------|----------|----------|----------|
| Voltage<br>(Vrms) | Sample No. |          |          |          |          |
|                   | Sample 1   | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
| 150               | 5.82       | 5.82     | 5.86     | 5.85     | 5.90     |
| 155               | 5.94       | 5.94     | 5.98     | 5.97     | 6.01     |
| 160               | 6.07       | 6.06     | 6.10     | 6.10     | 6.13     |
| 165               | 6.18       | 6.19     | 6.22     | 6.22     | 6.25     |
| 170               | 6.32       | 6.32     | 6.35     | 6.36     | 6.39     |
| VA                |            |          |          |          |          |
| Voltage<br>(Vrms) | Sample No. |          |          |          |          |
|                   | Sample 1   | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
| 150               | 14.26      | 14.30    | 14.38    | 14.01    | 13.93    |
| 155               | 15.40      | 15.45    | 15.46    | 15.23    | 14.96    |
| 160               | 16.01      | 16.02    | 16.02    | 15.82    | 15.69    |
| 165               | 16.18      | 16.61    | 16.60    | 16.41    | 16.25    |
| 170               | 17.23      | 17.20    | 17.18    | 17.00    | 16.82    |

# UMS SUMMARY TEST REPORT

PAGE 11 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Mode 4 (ELV Units)

| Watts             |            |          |          |          |          |
|-------------------|------------|----------|----------|----------|----------|
| Voltage<br>(Vrms) | Sample No. |          |          |          |          |
|                   | Sample 1   | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
| 150               | 5.02       | 5.01     | 5.05     | 5.05     | 5.11     |
| 155               | 5.14       | 5.13     | 5.17     | 5.17     | 5.20     |
| 160               | 5.26       | 5.26     | 5.30     | 5.30     | 5.34     |
| 165               | 5.38       | 5.39     | 5.42     | 5.43     | 5.45     |
| 170               | 5.52       | 5.52     | 5.56     | 5.56     | 5.60     |
| VA                |            |          |          |          |          |
| Voltage<br>(Vrms) | Sample No. |          |          |          |          |
|                   | Sample 1   | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
| 150               | 12.90      | 12.90    | 12.97    | 12.61    | 12.55    |
| 155               | 14.11      | 14.12    | 14.11    | 13.90    | 13.64    |
| 160               | 14.70      | 14.72    | 14.73    | 14.50    | 14.41    |
| 165               | 15.34      | 15.32    | 15.31    | 15.11    | 14.96    |
| 170               | 15.95      | 15.93    | 15.90    | 15.72    | 15.56    |

# UMS SUMMARY TEST REPORT

PAGE 12 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Mode 3 (LV Units)

| Watts             |            |          |          |          |           |
|-------------------|------------|----------|----------|----------|-----------|
| Voltage<br>(Vrms) | Sample No. |          |          |          |           |
|                   | Sample 6   | Sample 7 | Sample 8 | Sample 9 | Sample 10 |
| 150               | 5.88       | 5.87     | 5.87     | 5.87     | 5.87      |
| 155               | 5.99       | 5.99     | 5.99     | 5.99     | 5.99      |
| 160               | 6.12       | 6.12     | 6.11     | 6.12     | 6.12      |
| 165               | 6.25       | 6.24     | 6.24     | 6.24     | 6.25      |
| 170               | 6.38       | 6.37     | 6.37     | 6.38     | 6.41      |
| VA                |            |          |          |          |           |
| Voltage<br>(Vrms) | Sample No. |          |          |          |           |
|                   | Sample 6   | Sample 7 | Sample 8 | Sample 9 | Sample 10 |
| 150               | 14.41      | 14.30    | 14.26    | 14.14    | 14.31     |
| 155               | 15.53      | 15.48    | 15.45    | 15.35    | 15.62     |
| 160               | 16.11      | 16.07    | 16.05    | 15.94    | 16.20     |
| 165               | 16.69      | 16.67    | 16.64    | 16.51    | 16.77     |
| 170               | 17.27      | 17.26    | 17.23    | 17.10    | 17.48     |

# UMS SUMMARY TEST REPORT

PAGE 13 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Mode 4 (LV Units)

| Watts             |            |          |          |          |           |
|-------------------|------------|----------|----------|----------|-----------|
| Voltage<br>(Vrms) | Sample No. |          |          |          |           |
|                   | Sample 6   | Sample 7 | Sample 8 | Sample 9 | Sample 10 |
| 150               | 5.39       | 5.39     | 5.38     | 5.40     | 5.38      |
| 155               | 5.54       | 5.53     | 5.52     | 5.55     | 5.53      |
| 160               | 5.68       | 5.68     | 5.67     | 5.69     | 5.68      |
| 165               | 5.83       | 5.83     | 5.83     | 5.84     | 5.83      |
| 170               | 5.99       | 5.99     | 5.99     | 6.00     | 6.03      |
| VA                |            |          |          |          |           |
| Voltage<br>(Vrms) | Sample No. |          |          |          |           |
|                   | Sample 6   | Sample 7 | Sample 8 | Sample 9 | Sample 10 |
| 150               | 13.28      | 13.01    | 12.96    | 12.85    | 13.02     |
| 155               | 14.27      | 14.29    | 14.26    | 14.15    | 14.41     |
| 160               | 14.91      | 14.89    | 14.87    | 14.76    | 15.00     |
| 165               | 15.52      | 15.49    | 15.49    | 15.36    | 15.60     |
| 170               | 16.12      | 16.11    | 16.11    | 15.99    | 16.33     |

# UMS SUMMARY TEST REPORT

PAGE 14 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Mode 5 (Control Unit)

| Voltage<br>(Vrms) | Watts        |
|-------------------|--------------|
| <b>150</b>        | <b>3.74</b>  |
| <b>155</b>        | <b>3.86</b>  |
| <b>160</b>        | <b>3.97</b>  |
| <b>165</b>        | <b>4.10</b>  |
| <b>170</b>        | <b>4.22</b>  |
| Voltage<br>(Vrms) | VA           |
| <b>150</b>        | <b>11.65</b> |
| <b>155</b>        | <b>12.67</b> |
| <b>160</b>        | <b>13.26</b> |
| <b>165</b>        | <b>13.88</b> |
| <b>170</b>        | <b>14.50</b> |

# UMS SUMMARY TEST REPORT

PAGE 15 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Mode 6 (Control Unit)

| Voltage<br>(Vrms) | Watts        |
|-------------------|--------------|
| <b>210</b>        | <b>5.46</b>  |
| <b>220</b>        | <b>5.87</b>  |
| <b>230</b>        | <b>6.32</b>  |
| <b>240</b>        | <b>6.84</b>  |
| <b>250</b>        | <b>7.46</b>  |
| Voltage<br>(Vrms) | VA           |
| <b>210</b>        | <b>19.98</b> |
| <b>220</b>        | <b>21.71</b> |
| <b>230</b>        | <b>23.79</b> |
| <b>240</b>        | <b>26.45</b> |
| <b>250</b>        | <b>29.97</b> |

# UMS SUMMARY TEST REPORT

PAGE 16 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**

## Test Equipment

| Asset Number | Description    | Calibration Date | Calibration Due |
|--------------|----------------|------------------|-----------------|
| AN288        | Power Source   | -                | -               |
| AN1162       | Power Analyser | 14/09/2017       | -               |

## Photographs of the Test Item



**Above:** PCaTS unit with PCaTS test box



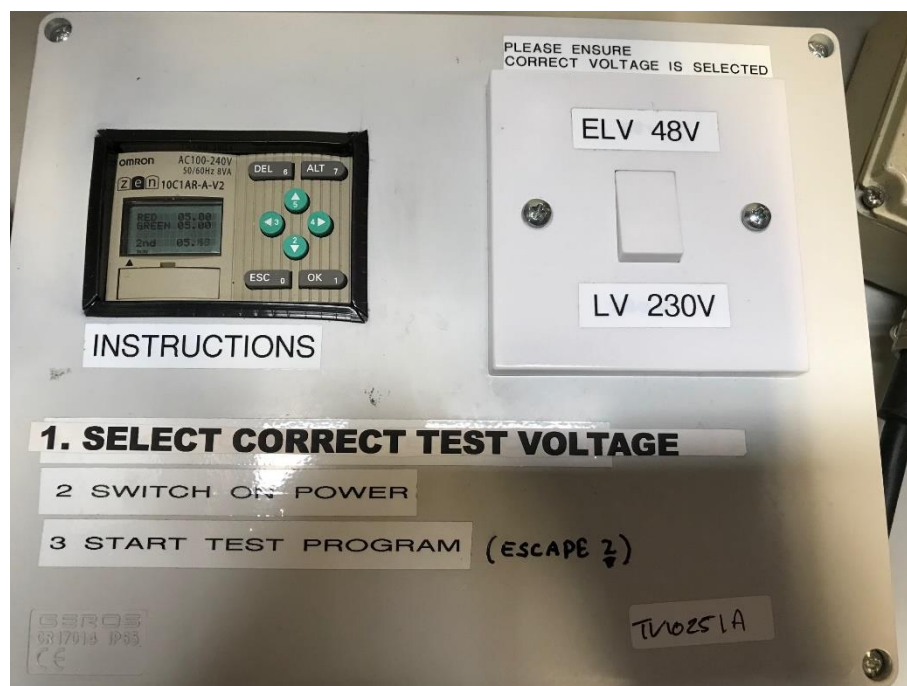
# UMS SUMMARY TEST REPORT

PAGE 17 OF 17

ISSUED BY:  
CRANAGE EMC TESTING LIMITED  
WALLACE WAY  
TERN VALLEY BUSINESS PARK  
MARKET DRAYTON  
SHROPSHIRE, TF9 3AG



Report No: **U0080R1** Date of Issue: **20<sup>th</sup> November 2017**



**Above:** PCaTS test box

## Measurement Uncertainty

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