



Accreditation No. 179

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POWER MEASUREMENT TEST REPORT ON Traffic Signal Extension Housing Equipment

Report Number: 179/22/10925N

Report Date: 21 August 2023

Calibrated by:

Lech Bartnik

Telephone:

08 82920172

Checked by:

Lech Bartnik

Authorised Signatory

Page: 1 of 6

W/O: 20221693e

Doc Code: TrafficSignalExtensionHousing

Authorised by: K.Vu

Contact:

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Calibration and Testing Services

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CLIENT DETAILS

Reference: 23011902439
 Name: DIT-Department for Infrastructure and Transport
 Address: Level 7, 83 Pirie Street.
 Attention: Yolanda Zhao

ITEM DETAILS

Date Received: 14 August 2023
 Manufacturer: Sage
 Model: Unknown, housing contains several differently branded components, see the configuration column in the results table.

TEST DETAILS

Work Order: 20221693e
 Date of Test: 14 August 2023
 Test site: DIT Test Site in Bedford Park
 Test Method: Direct accumulative active energy measurement at the housing's supply entry. Recorded after 1 hour and 2 hours. Mains supply 240VAC +5% , -10%, 50Hz. Power meter set to Crest Factor 6, 1A/300V range.
 Conditions of Test: 22°C ±1°C.
 50Hz essentially sinusoidal input unless specified otherwise.
 Reference Equipment: Yokogawa WT333E Power Meter S/N: C3UF20004E
 Results of Tests: Refer to following pages.
 Uncertainty of Measurement: Active Energy: $\pm \left(\frac{0.1\% \text{rdg}}{\cos \phi} + 1 \text{dgt} \right)$ 1Ph-1W
 Time: ±1.0s
 AC Current: ±0.1%
 Power Factor; ±0.002
 Estimated for 95% confidence.

Uncertainty

The stated uncertainties have been estimated for 95% confidence limits. Unless stated otherwise in the report a coverage factor of k=2 has been used.

The uncertainties apply at the time of measurement and at the stated 'Conditions of Test'. They do not consider drift after the calibration date nor do they take into account the environment and the conditions in which the instrument may be used.

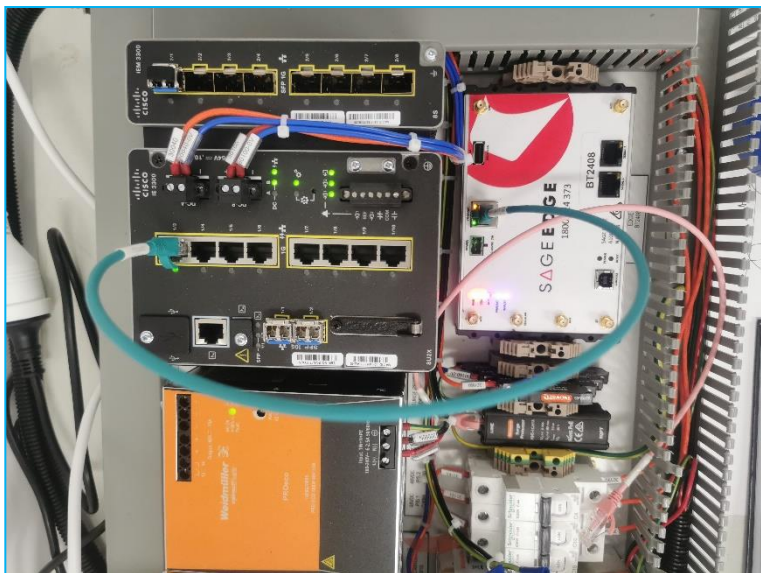
RESULTS.

Test	Configuration		Energy [Wh]		Current [A]	Power Factor
	Description	S/N	After 1hr	After 2hrs	After 2hrs	After 2hrs
1	Weidmuller 48Vdc 10A Power Supply Unit 1469610000	TS603G3003	39.403	78.895	0.378	0.439
	Cisco Network Switch IE3300	FCW2725Y475				
	SAGE Edge AI100410	S1999				
2	Weidmuller 48Vdc 10A Power Supply Unit 1469610000	TS597G3003	61.794	121.83	0.482	0.599
	Cisco Network Switch IE3300	FCW2725Y46X				
	AXIS PTZ CAMERA Q6315-LE	B8A44F8714FB				
	SAGE Edge AI100410	S1995				
3	Weidmuller 48Vdc 5A Power Supply Unit 1469590000	TS603G3015	28.094	51.584	0.226	0.574
	OSD 2184P Ethernet Switch	10207841				
	AXIS PTZ CAMERA Q6315-LE	B8A44F86FB66				
4	Weidmuller 48Vdc 10A Power Supply Unit 1469610000	TS603G3003	59.356	116.69	0.733	0.323
	Weidmuller 48Vdc 10A Power Supply Unit 1469610000	TS603G3009				
	Cisco Network Switch IE3300	FCW2725Y475				
	AXIS PTZ CAMERA Q6315-LE	B8A44F86FB66				
5	Weidmuller 48Vdc 10A Power Supply Unit 1469610000	TS597G3003	79.286	156.13	0.771	0.397
	Weidmuller 48Vdc 10A Power Supply Unit 1469610000	TS597G3009				
	Cisco Network Switch IE3300	FCW2725Y46X				
	AXIS PTZ CAMERA Q6315-LE	B8A44F8714FB				
	AXIS PTZ CAMERA Q6315-LE	B8A44F870F11				

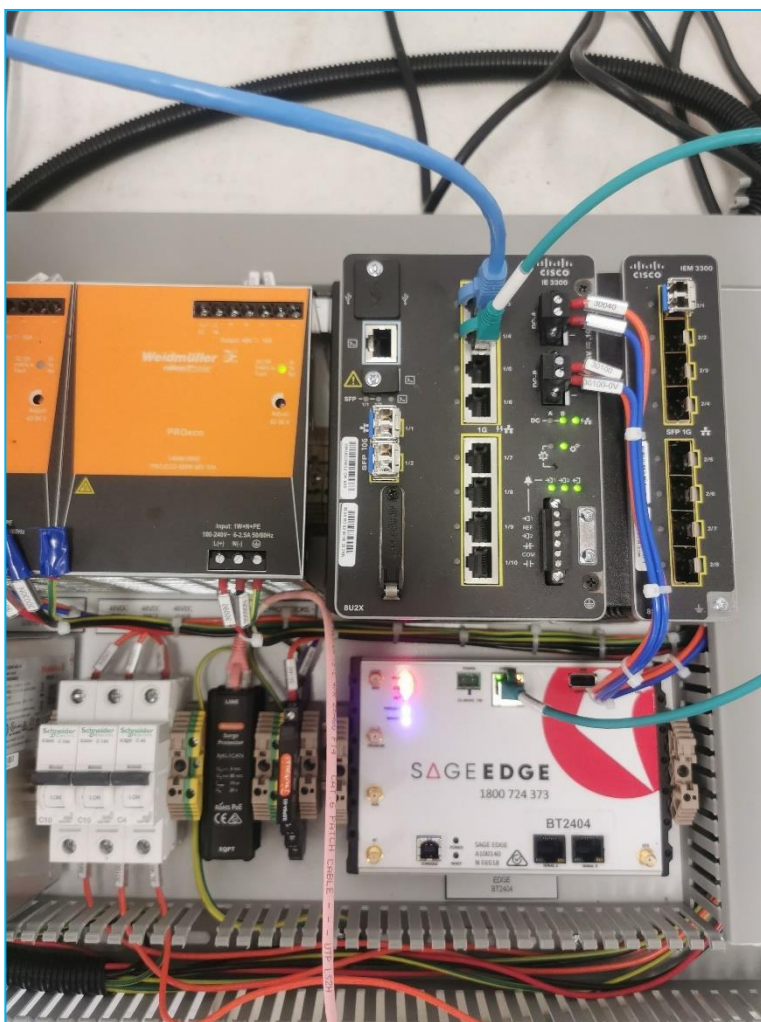


APPENDIX . PHOTOGRAPHIC DOCUMENTATION.

Test 1. Single power supply fed Layer 2 Network Switch loaded with Linking Control Module (BT enabled)



Test 2. Single power supply fed Layer 2 Network Switch loaded with single PTZ camera and Linking Control Module (BT enabled)



Test 3. Single power supply fed Ethernet Switch loaded with single PTZ camera.



Test 4. Dual power supply fed Layer 2 Network Switch loaded with single PTZ camera



Test 5. Dual power supply fed Layer 2 Network Switch loaded with two PTZ cameras



End of report.