

T e s t R e p o r t

Report No : U10023

Client: : Lucy Zodion Ltd
Station Road
Sowerby Bridge
West Yorkshire
HX6 3AF

Description : Gateway

Manufacturer : Not disclosed

Type/Model : MTCDTIP-LEV1

Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 17.0 (15/03/2017)

Date Testing Started : 15/05/2018

Conclusion : Refer to body of report

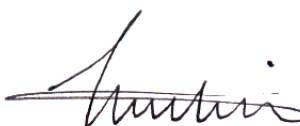
Date of Issue : 08/06/2018

Date of Expiry : 07/06/2023

Tested by: E. PERRY
Position: Technical Administrator



Approved by: T. MALIK
Position: Operations Manager



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INTRODUCTION

Lucy Zodion Ltd has supplied the product identified in table 1 for measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 17.0 (15/03/2017).

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	Gateway
Model No.	MTCDTIP-LEV1
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	400mm x 260mm x 90mm
Product Supply Requirement	220-240V AC/ 50/60Hz
Lamp Type and Power	LED, 5W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

The customer has declared that the equipment load does not vary with ambient temperature.

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RESULTS

Table 2. *Wattage and VA results for Sensor Node*

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	5.72	5.72	5.80	5.70	5.75
220	5.71	5.88	5.69	5.70	5.76
230	5.70	5.76	5.73	5.96	5.72
240	5.72	5.75	5.76	5.75	5.75
250	5.81	5.72	5.79	6.00	5.78
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	15.30	15.30	15.31	15.17	15.20
220	15.62	15.53	15.58	15.61	15.58
230	15.95	16.65	16.01	16.57	15.99
240	16.38	16.45	16.44	16.42	16.34
250	16.91	16.72	16.86	17.31	16.45
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.37	0.37	0.38	0.38	0.38
220	0.37	0.38	0.37	0.37	0.37
230	0.36	0.35	0.36	0.36	0.36
240	0.35	0.35	0.35	0.35	0.35
250	0.34	0.34	0.34	0.35	0.35
Ambient Temperature During Test (°C)			24.8		
PF Leading/Lagging			Leading		

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DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

The following expanded uncertainties apply to the measurements shown in the results;

True Power (W): $\pm 0.69\%$, Apparent Power (VA): $\pm 0.61\%$

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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ILLUSTRATION



Figure 1. Product image

End