Test Report

Report No	:	L15440
Client:	:	ClearView Traffic Group Ltd A4 Telford Road Bicester Oxfordshire OX26 4LD
Description	:	Data Collector
Manufacturer	:	Not Disclosed
Type/Model	:	M310 - GPRS & M310 - ETHERNET
Test Specification	:	Measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 14.0 (17/12/2014)
Date Testing Started	:	17/12/2015
Conclusion	:	Refer to body of report
Date of Issue	:	05/01/2016
Date of Expiry	:	04/01/2021

Tested by: **M.ALI**
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INTRODUCTION

ClearView Traffic Group Ltd has supplied the product identified in table 1 for measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 14.0 (17/12/2014).

PRODUCT DETAILS

Table 1. ***Test Sample Details***

Product Description	Data Collector
Model No.	M310 - GPRS & M310 - ETHERNET
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	252mm x 251mm x 89mm (GPRS) 150mm x 82mm x 49mm (Ethernet)
Product Supply Requirement	110-240V AC 50/60Hz
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 Data Collector (M310 – GPRS)***

Operating Mode	0, 100%				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	3.16	3.04	3.01	3.01	3.02
220	3.08	3.11	3.09	3.10	3.10
230	3.15	3.20	3.23	3.17	3.17
240	3.24	3.30	3.28	3.27	3.28
250	3.34	3.39	3.39	3.35	3.36
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	8.41	8.26	8.14	8.35	8.31
220	8.65	8.75	8.63	8.82	8.77
230	8.87	8.99	8.95	9.34	9.29
240	9.60	9.77	9.63	10.03	9.97
250	10.14	10.28	10.16	10.60	10.54
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.38	0.37	0.37	0.36	0.36
220	0.36	0.36	0.36	0.35	0.35
230	0.36	0.36	0.36	0.34	0.34
240	0.34	0.34	0.34	0.33	0.33
250	0.33	0.33	0.33	0.32	0.32
Ambient Temperature During Test (°C)	25.5				
PF Leading/Lagging	Leading				

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Table 3. ***Wattage and VA results for Data Collector (M310 – ETHERNET)***

Operating Mode	0, 100%				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	1.03	1.02	1.02	1.02	1.02
220	1.03	1.02	1.03	1.02	1.02
230	1.03	1.02	1.03	1.03	1.03
240	1.04	1.03	1.04	1.03	1.04
250	1.05	1.04	1.05	1.04	1.04
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	4.15	4.14	4.20	4.22	4.26
220	4.42	4.41	4.48	4.49	4.53
230	4.69	4.69	4.76	4.78	4.83
240	4.99	4.99	5.07	4.96	5.02
250	5.32	5.33	5.41	5.40	5.46
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.25	0.25	0.24	0.24	0.24
220	0.23	0.23	0.23	0.23	0.23
230	0.22	0.22	0.22	0.22	0.21
240	0.21	0.21	0.21	0.21	0.21
250	0.20	0.20	0.19	0.19	0.19
Ambient Temperature During Test (°C)	25.5				
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): ±0.69%, Apparent Power (VA): ±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 (GPRS)***

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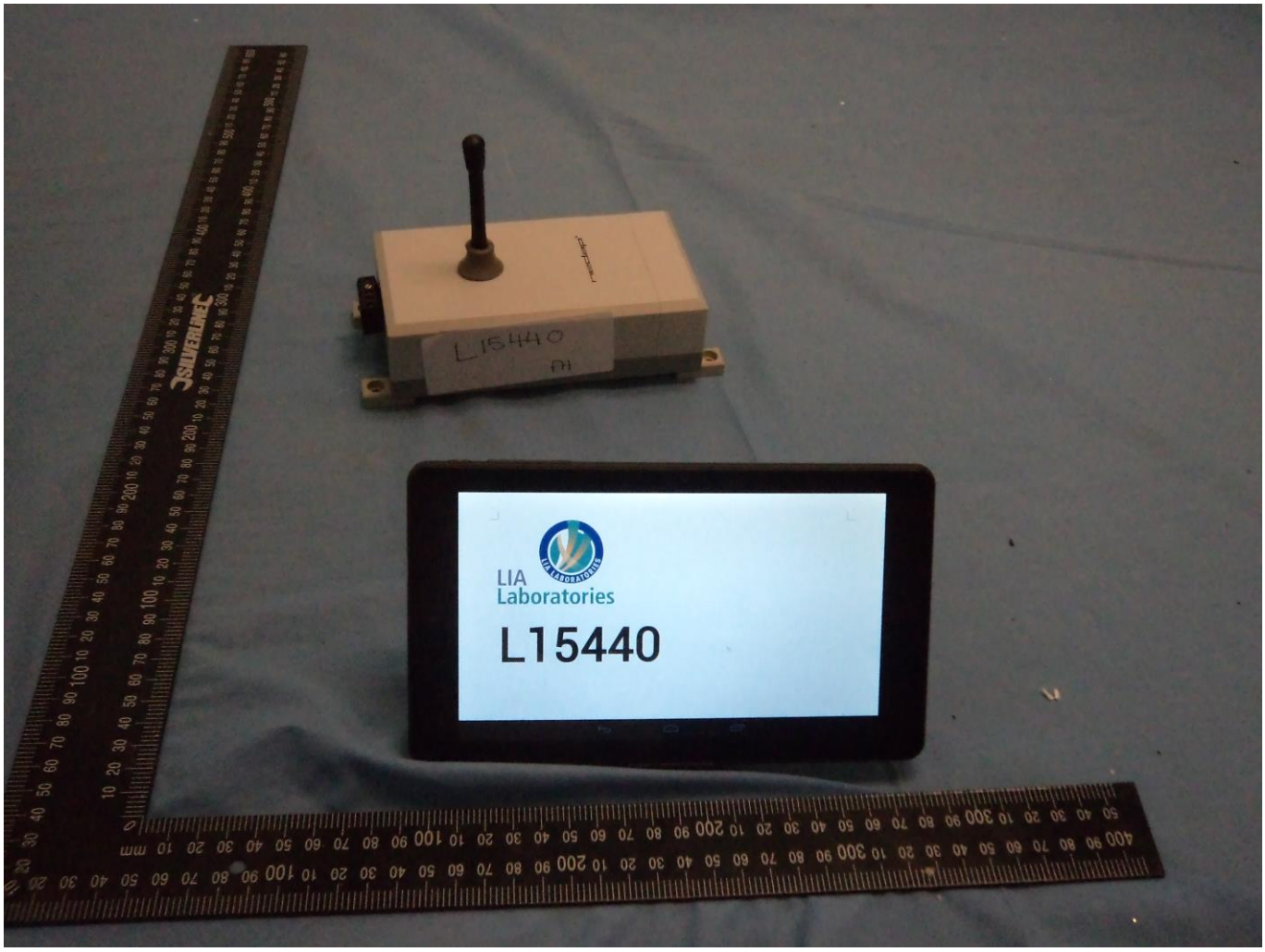

Figure 2 ***Product Image (Ethernet)***

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