

## T e s t R e p o r t

**Report No** : U10024

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

**Description** : Sensor Node

**Manufacturer** : Not disclosed

**Type/Model** : Energy

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


**Date Testing Started** : 22/05/2018

**Conclusion** : Refer to body of report

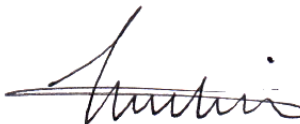
**Date of Issue** : 08/06/2018

**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	Sensor Node
Model No.	Energy
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	L - 90mm; H - 55mm; W - 20mm
Product Supply Requirement	220-240V AC/ 50/60Hz
Lamp Type and Power	LED, 0.171W
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	0.157	0.159	0.161	0.159	0.156
220	0.161	0.164	0.165	0.166	0.162
230	0.167	0.171	0.172	0.171	0.168
240	0.174	0.177	0.178	0.177	0.175
250	0.180	0.184	0.185	0.184	0.182
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	0.391	0.402	0.406	0.405	0.394
220	0.403	0.410	0.413	0.415	0.402
230	0.407	0.422	0.426	0.425	0.416
240	0.420	0.432	0.436	0.441	0.424
250	0.427	0.448	0.448	0.448	0.439
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.40	0.40	0.40	0.39	0.40
220	0.40	0.40	0.40	0.40	0.40
230	0.41	0.41	0.40	0.40	0.40
240	0.41	0.41	0.41	0.40	0.41
250	0.42	0.41	0.41	0.41	0.41
Ambient Temperature During Test (°C)			24.3		
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**

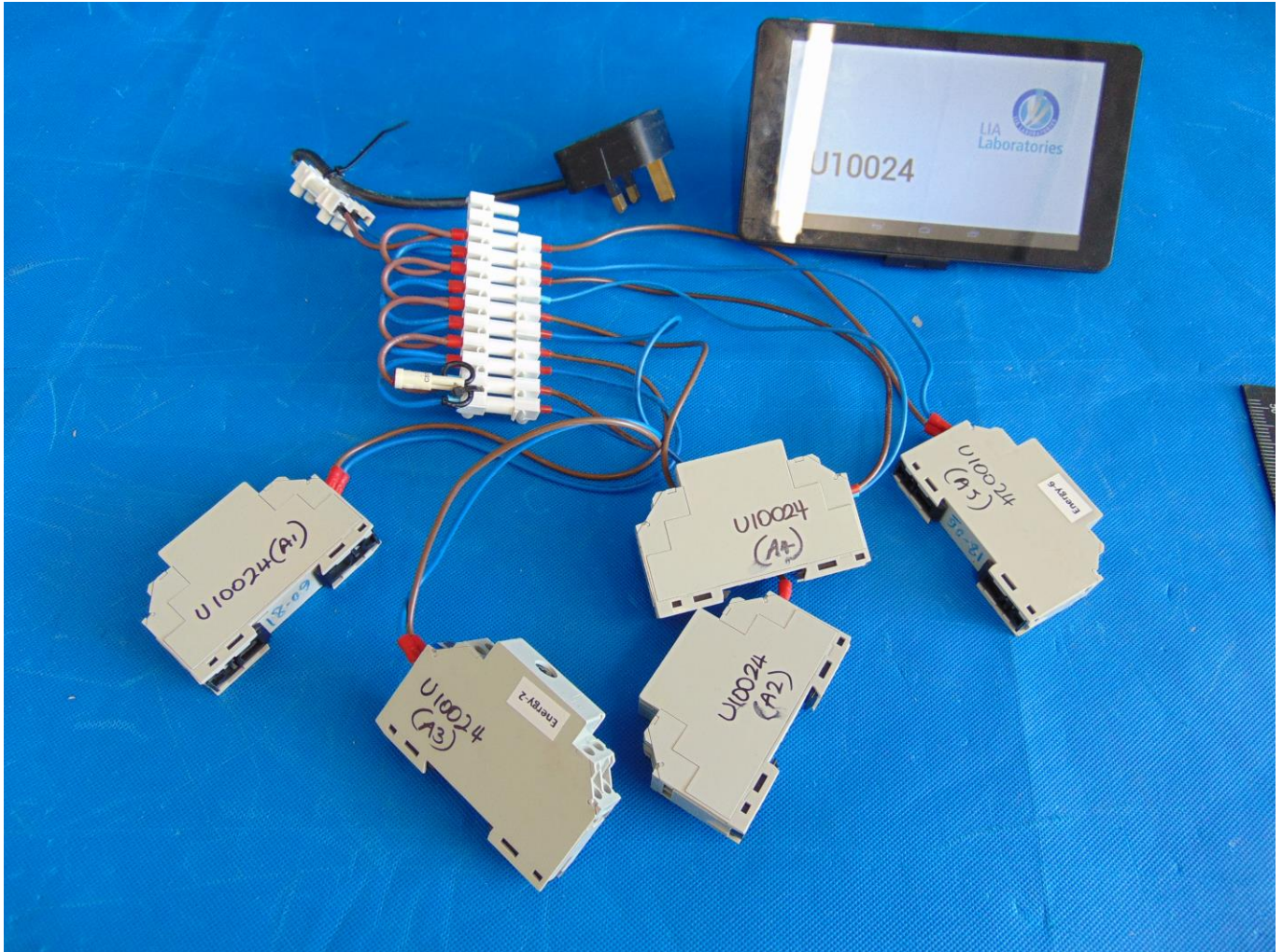


Figure 1. *Product image*

End