

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

**Report No** : L16333A

**Client:** : Clear Channel United Kingdom  
Unit 9, Newtons Court  
Galleon Boulevard  
Crossways Business Park  
Dartford  
DA2 6QL

**Description** : NGT Wayfinder

**Manufacturer** : Not Disclosed

**Type/Model** : DS70NGT

**Test Specification** : Measurement of power consumption in accordance with the  
'Unmetered Supplies Operational Information Document' –  
Version 16.0 (16/11/2016)

**Date Testing Started** : 02/03/2017

**Conclusion** : Refer to body of report

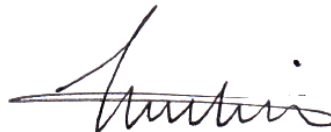
**Date of Issue** : 20/03/2017

**Date of Expiry** : 19/03/2022

**Tested by:** M.ALI  
**Position:** Photometry Team  
Leader



**Approved:** T.MALIK  
**Position:** Operations & Quality  
Manager



## **INTRODUCTION**

The products identified in Table 1 were tested at the premises of Clear Channel United Kingdom for measurement of power consumption in accordance with the “Unmetered Supplies Operational Information” document – Version 16.0 (16/11/2016).

## **PRODUCT DETAILS**

**Table 1. Test Sample Details**

Product Description	NGT Wayfinder
Model No.	DS70NGT
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	220mm x 110mm x 85mm
Product Supply Requirement	240V AC 50Hz
Lamp Type and Power	LED, Variable Power
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 NGT Wayfinder**

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	75.05	74.56	76.02	75.03	75.26
220	74.90	74.61	75.94	74.88	75.37
230	74.74	74.23	75.67	74.81	75.29
240	74.67	74.27	75.63	74.69	75.44
250	74.79	74.14	75.63	74.65	75.10
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	81.31	80.51	82.27	81.18	81.08
220	82.36	81.78	83.51	82.29	82.01
230	83.20	82.52	84.73	83.35	83.18
240	84.31	83.71	85.92	84.42	84.87
250	85.98	85.04	87.36	85.95	86.41
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.92	0.93	0.92	0.92	0.93
220	0.91	0.91	0.91	0.91	0.92
230	0.90	0.90	0.89	0.90	0.91
240	0.89	0.89	0.88	0.88	0.89
250	0.87	0.87	0.87	0.87	0.87
Ambient Temperature During Test (°C)			9.6		
PF Leading/Lagging			Leading		

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**Table 3. Wattage and VA results for NGT Wayfinder**

Operating Mode	70%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	64.00	63.48	64.78	64.18	64.80
220	63.97	63.42	64.82	64.04	64.20
230	63.79	63.60	64.52	64.04	64.17
240	63.77	63.87	64.43	64.22	64.01
250	63.79	63.27	64.45	64.05	66.51
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	70.78	70.10	71.82	70.95	70.79
220	71.66	70.95	73.11	71.74	71.46
230	72.68	72.24	73.95	72.93	72.96
240	74.20	73.91	75.30	74.65	74.56
250	76.08	75.21	77.19	76.42	78.67
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.90	0.91	0.90	0.90	0.92
220	0.89	0.89	0.89	0.89	0.90
230	0.88	0.88	0.87	0.88	0.88
240	0.86	0.86	0.86	0.86	0.86
250	0.84	0.84	0.83	0.84	0.85
Ambient Temperature During Test (°C)			9.6		
PF Leading/Lagging			Leading		

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**Table 4. Wattage and VA results for NGT Wayfinder**

Operating Mode	50%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	56.15	55.60	56.74	56.49	56.40
220	56.70	55.90	57.06	56.68	56.57
230	56.14	55.85	56.69	56.60	56.21
240	56.34	55.58	56.75	56.45	56.15
250	56.18	55.83	56.64	56.46	56.33
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	63.10	62.41	64.25	63.40	62.97
220	64.73	63.72	65.59	64.69	64.51
230	65.68	65.05	66.60	66.09	65.81
240	67.61	66.55	68.44	67.79	67.46
250	69.41	68.75	70.43	69.89	69.42
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.89	0.89	0.88	0.89	0.90
220	0.88	0.88	0.87	0.88	0.88
230	0.85	0.86	0.85	0.86	0.85
240	0.83	0.84	0.83	0.83	0.83
250	0.81	0.81	0.80	0.81	0.81
Ambient Temperature During Test (°C)			9.0		
PF Leading/Lagging			Leading		

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**Table 5. Wattage and VA results for NGT Wayfinder**

Operating Mode	20%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	44.80	44.19	45.25	45.17	44.80
220	44.56	44.60	45.28	45.07	44.43
230	44.56	44.28	45.03	45.05	44.42
240	44.61	44.37	45.05	45.04	44.74
250	44.61	44.27	45.15	45.29	44.42
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	52.63	51.74	53.39	52.88	52.64
220	53.90	53.54	54.91	54.34	53.76
230	55.58	54.96	56.51	56.11	55.20
240	57.31	56.83	58.64	57.95	57.13
250	59.22	58.66	60.77	60.10	58.73
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.85	0.85	0.85	0.85	0.85
220	0.83	0.83	0.82	0.83	0.83
230	0.80	0.81	0.80	0.80	0.80
240	0.78	0.78	0.77	0.78	0.78
250	0.75	0.75	0.74	0.75	0.76
Ambient Temperature During Test (°C)			9.1		
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;

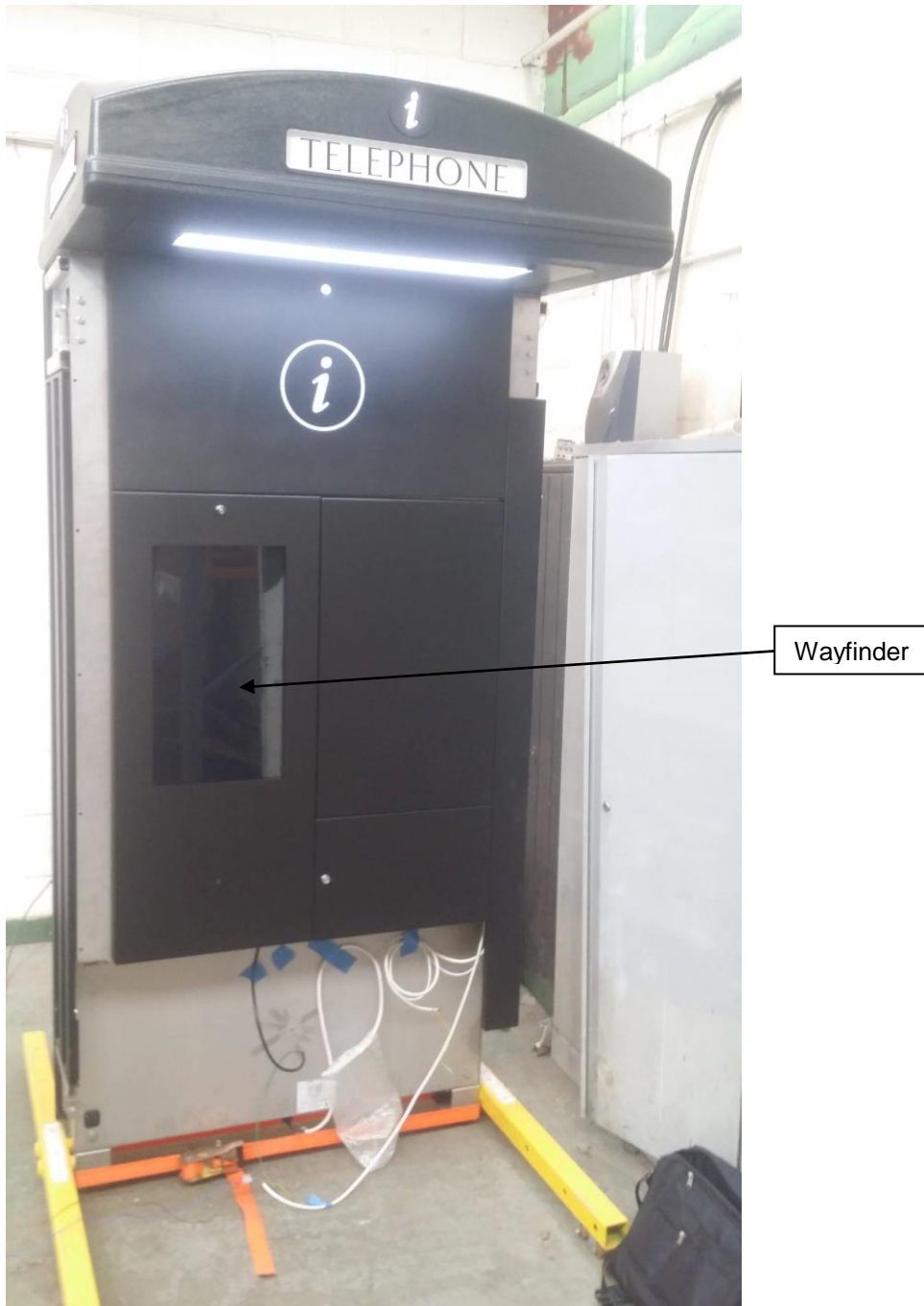
True Power (W):  $\pm 0.69\%$ , Apparent Power (VA):  $\pm 0.61\%$

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**