

TEST REPORT
FOR
Telensa Limited
ON
Telecell 2
REPORT NO. TRA-040598-43-00A
3 JULY 2018

TEST REPORT**Report reference No.** : TRA-040598-43-00AReport Author : D M Parrish
(printed name and signature) : Senior Engineer - Safety DivisionReport Approved by : N Parrott
(printed name and signature) : Department Manager
- Safety Division

Date of issue : 2018-07-03

Testing laboratory location and address

Name : Element Materials Technology

Address : Unit E, South Orbital Trading Park, Hedon Road, Hull, HU9 1NJ,
United Kingdom**Applicants name** : Telensa LimitedAddress : Iconix, 3 London Road, Pampisford, Cambridge, Cambridgeshire
CB22 3EG. United Kingdom**Test specification**Standard : AEMO Unmetered Load Guideline - Determination of Device Load
and Annual Energy Consumption for Unmetered Device Types.
Version 1.0, 3 April 2014**Test item description**

Model/Type reference : Telecell 2

Date(s) of performance of tests : 2018-07-02

Test Method

The Telecell 2 unit was mounted into the test jig provided by the client. Mains voltage was supplied to the test jig by a mains variac set to 250 V ac. The variac was supplied by the laboratory stabilised mains supply. The measurements were taken with a multi function power meter ten minutes after the supply was applied (see photograph 2 on). The ten minute delay before measurement allowed for the measurement to stabilise.

Test Results

Input voltage, input current, input power and power factor were measured on the 10 samples of the Telecell 2 unit after the ten minute settling period.

Testing was performed in accordance with AEMO Unmetered Load Guideline- Determination of Device Load and Annual Energy Consumption for Unmetered Device Types. Version 1.0, 3 April 2014 and Telecell 2 Test Specification for AEMO.

Results obtained

Element Sample No.	Client Sample No.	Serial No.	Relay State (on/off)	Input Voltage (V)	Running Current (mA)	Power Factor	Power Consumption (Watts)
S03	1	100284469	Off	250.10	7.078	0.303	0.542
S04	2	100289527	Off	250.10	7.233	0.301	0.546
S05	3	100290013	Off	250.10	7.201	0.300	0.541
S06	4	100287563	Off	250.14	7.188	0.302	0.542
S07	5	100291392	Off	250.11	7.258	0.300	0.541
S08	6	100290216	On	250.13	10.484	0.331	0.861
S09	7	100290326	On	250.12	10.550	0.327	0.858
S10	8	100292053	On	249.93	10.400	0.327	0.849
S11	9	100291944	On	250.19	10.504	0.332	0.872
S12	10	100291606	On	250.01	10.231	0.328	0.840

Notes:

1. All test performed at 250 V (+/- 0.2%), and the supply frequency was 50 Hz.
2. The laboratory temperature and humidity was 21.7°C, 50% throughout the evaluation.

Measurement Uncertainties

AC Current	0.30% of reading
AC Voltage	0.29% of reading
AC Power	0.31% of reading
Power factor	0.50% of reading

The above measurement uncertainties are calculated in accordance with UKAS M3003 at a confidence level of 95% with a coverage factor k=2.

List of test equipment used:

Measurement/ testing	Testing/measuring equipment/ material used	Reference number	Calibration due date
Voltage, current, power and PF	Yokogawa WT 310	REF: 2124	2018-07-24
Laboratory ambient	KT-903 Temperature/Humidity Meter	REF: 2077 B	2018-06-19
Time	RS – Stop watch	REF: 670	2018-05-30

The following test items were submitted for assessment: -

Sample Number	Test Item	Serial number
TRA-040598S01	Client supplied mains connection box	Not present
TRA-040598S02	Mains supply cord	Not present
TRA-040598S03	Telecell 2 (Client Ref 1, Relay Off)	100284469
TRA-040598S04	Telecell 2 (Client Ref 2, Relay Off)	100289527
TRA-040598S05	Telecell 2 (Client Ref 3, Relay Off)	100290013
TRA-040598S06	Telecell 2 (Client Ref 4, Relay Off)	100287563
TRA-040598S07	Telecell 2 (Client Ref 5, Relay Off)	100291392
TRA-040598S08	Telecell 2 (Client Ref 6, Relay On)	100290216
TRA-040598S09	Telecell 2 (Client Ref 7, Relay On)	100290326
TRA-040598S10	Telecell 2 (Client Ref 8, Relay On)	100292053
TRA-040598S11	Telecell 2 (Client Ref 9, Relay On)	100291944
TRA-040598S12	Telecell 2 (Client Ref 10, Relay On)	100291606

Photographs of the Equipment

1. Telecell 2 unit.



2. Telecell 2 unit installed into the measurement set up..

