

UMS SUMMARY TEST REPORT

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ISSUED BY:
CRANAGE EMC TESTING LIMITED
STABLE COURT
OAKLEY
MARKET DRAYTON
SHROPSHIRE, TF9 4AG



Report No: **U0044R** Date of Issue: **2nd December 2014**

This document summarises the results of testing to ascertain the appropriate Elexon Charge Codes for inclusion in BSCP520

Tested & Inspected for: **Cobalt Telephone Technology Ltd,
Intec 2, Wade Road,
Basingstoke, RG24 8NE.**

Test Date: **27th – 28th November 2014**
Receipt Date of Test Item: **24th November 2014**

Sample 1

Test Item Description: **Sensor Gateway**
Manufacturer: **Cobalt Telephone Technology Limited**
Model Number: **Cobalt Sensor Gateway**
Serial Number: **GW1**

Sample 2

Test Item Description: **Sensor Gateway**
Manufacturer: **Cobalt Telephone Technology Limited**
Model Number: **Cobalt Sensor Gateway**
Serial Number: **GW5**

Sample 3

Test Item Description: **Sensor Gateway**
Manufacturer: **Cobalt Telephone Technology Limited**
Model Number: **Cobalt Sensor Gateway**
Serial Number: **GW3**

Sample 4

Test Item Description: **Sensor Gateway**
Manufacturer: **Cobalt Telephone Technology Limited**
Model Number: **Cobalt Sensor Gateway**
Serial Number: **GW4**

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Sample 5

Test Item Description:	Sensor Gateway
Manufacturer:	Cobalt Telephone Technology Limited
Model Number:	Cobalt Sensor Gateway
Serial Number:	GW2

Approved Signatories: M. Richens - Technical Director



APPROVED SIGNATORY

Verification Signatories: R. Flynn - Test Engineer



VERIFICATION SIGNATORY

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Mode of Operation: The test item was powered 'ON' with no sensors added to the gateways (required traffic purposes). This was declared by the manufacturer as being acceptable based their declaration that power consumption is not affected. A photograph showing the test item can be found on page 5.

Unit under test: - Units were powered up for 30 minutes to stabilise.

Test Condition: - Measurements were taken after 15 minutes at each voltage level. This was found to be adequate time for stabilisation.

All results are rounded to 2 decimal places.

Mode 1

Watts					
Voltage (Vrms)	Sample No.				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	5.11	5.04	5.19	5.16	5.41
220	5.17	5.05	5.20	5.17	5.41
230	5.20	5.08	5.18	5.23	5.40
240	5.22	5.10	5.17	5.21	5.42
250	5.24	5.17	5.20	5.23	5.48

VA					
Voltage (Vrms)	Sample No.				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	13.27	13.3	13.45	13.23	13.95
220	13.69	13.68	13.86	13.61	14.30
230	14.07	14.04	14.20	14.02	14.66
240	14.42	14.37	14.51	14.26	15.08
250	14.72	14.81	14.88	14.58	15.50

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Ambient temperature range recorded during test period:
20°C

Test Equipment

Asset Number	Description	Calibration Date	Calibration Due
AN288	Power Source	-	-
AN1162	Power Analyser	16/07/2014	15/07/2015
AN452	Timer	-	-

Photographs of the Test Item



Above: Equipment under test.

Measurement Uncertainty

The 95 % confidence measurement uncertainty for AC Power (Analyser) is 0.17%.