

# CERTIFICATE OF CALIBRATION

Issued By Transmille Ltd.

Certificate Number EXAMPLE

Date of Issue 09 December 2008



Approved Signatory



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**EXAMPLE  
CERTIFICATE**

EXAMPLE  EXAMPLE

## Customer :

Date Received : 09 December 2008

**Instrument :** System ID : EXAMPLE  
Description : 2/10/50 Current Clamp Adapter  
Manufacturer : Transmille  
Model Number : EA002  
Serial Number : EXAMPLE  
Procedure Version : 3.01/N

## Environmental Conditions

Temperature : 20°C +/- 1°C  
Relative Humidity : 50% +/- 20%  
Mains Voltage : 240V +/- 12V  
Mains Frequency : 50Hz +/- 1Hz

## Comments

Instrument was allowed to stabilise for at least 12 hours before calibration.  
Tests marked # are not UKAS accredited have been included for completeness

## Calibration Information

The instrument was calibrated against laboratory standards whose values are traceable to recognised National Standards. The uncertainty limits quoted refer to the measured values only, with no account being taken of the instruments ability to maintain its calibration.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrated By : EXAMPLE

Date of Calibration : EXAMPLE

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to recognised national standards, and to the units of measurement realised at the National Physical Laboratory or other recognised national standards laboratories. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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UKAS Accredited Calibration Laboratory No. 0324  
**AS FOUND RESULTS**

Certificate Number  
EXAMPLE

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Test Title	Applied Value	Reading	Uncertainties
<b><i>Coil Measurements were taken by intercomparison using a clamp meter to measure current flowing in a single conductor, versus the reading obtained using the coil. The current is set to give the same reading on the clamp meter to eliminate linearity errors in the clamp meter. The clamp alignment was kept central for the single conductor and coil. This certificate confirms that the coil has the correct number of turns. and can be used up to the rated current. Note that the performance of the coil will be exactly the same at any current, as the number of turns are fixed and do not change with input current.</i></b>			
<b>2 Turn Coil</b> <b><i>Current in single conductor 19A/50Hz, Current in coil 9.5A/50Hz</i></b>			
2 Turn Coil	19.00A	18.98A	29mA
<b>10 Turn Coil</b> <b><i>Current in single conductor 19A/50Hz, Current in coil 1.9A/50Hz</i></b>			
10 Turn Coil	19.00A	19.01A	29mA
<b>50 Turn Coil</b> <b><i>Current in single conductor 19A/50Hz, Current in coil 0.38A/50Hz</i></b>			
50 Turn Coil	19.00A	19.02A	29mA
<b>High Current readings obtained by direct comparison against a known 50 turn coil using a clamp meter. Clamp alignment was kept central</b>			
2Amps DC #	100.0A	99.8A	0.1A
2Amps AC @ 50Hz #	100.0A	100.2A	0.1A
10Amps DC #	500A	501A	1A
10Amps AC @ 50Hz #	500A	499A	1A
30Amps DC #	1 500A	1 500A	1.1A
30Amps AC @ 50Hz #	1 500A	1 498A	1.2A

***End of results***