

CERTIFICATE OF CALIBRATION

Issued By Transmille Ltd.

Certificate Number 27740

Date of Issue 28 January 2015



Approved Signatory

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G.A. Shapland M.A. Bailey S.A. Hawkins J.A. Bailey

Customer :

Date Received : 28 January 2015

Instrument :	System ID :	T00003532	Job Number :	54968
	Description :		Site :	
	Manufacturer :	Transmille	Location :	
	Model Number :	1000B		
	Serial Number :	W0510A15		
	Procedure Version :	8091-3.0/N		

Environmental Conditions

Temperature :	20°C +/- 1°C	Mains Voltage :	230V +/- 12V
Relative Humidity :	50% +/- 20%	Mains Frequency :	50Hz +/- 1Hz

Comments

Instrument was allowed to stabilise for at least 12 hours before calibration.
4 Wire kelvin connections were used for ohms measurements below 10kOhms
The instrument USB interface was used during calibration
PT100 resistance converted to temperature using BS1904 tables.
Tests marked # are not UKAS accredited but 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 : M.G. White

Date of Calibration : 28 January 2015

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

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Test Title	Applied Value	Reading	Uncertainties
DC Voltage			
100mV Range	0.000mV	0.000 9mV	1uV
100mV Range	20.000mV	20.000 3mV	1uV
100mV Range	50.000mV	49.998 7mV	1uV
100mV Range	100.000mV	99.997 6mV	1uV
100mV Range	-20.000mV	-19.9983mV	1uV
100mV Range	-50.000mV	-49.9977mV	1uV
100mV Range	-100.000mV	-99.9983mV	1uV
1V Range	0.200 00V	0.200 003V	1.7uV
1V Range	0.500 00V	0.500 001V	3uV
1V Range	1.000 00V	1.000 010V	5uV
1V Range	-0.20000V	-0.199991V	1.7uV
1V Range	-0.50000V	-0.499992V	3uV
1V Range	-1.00000V	-0.999999V	5uV
10V Range	2.000 0V	2.000 00V	12uV
10V Range	5.000 0V	4.999 98V	30uV
10V Range	10.000 0V	10.000 04V	60uV
10V Range	-2.0000V	-1.99999V	12uV
10V Range	-5.0000V	-5.00000V	30uV
10V Range	-10.0000V	-10.00010V	60uV
100V Range	50.000V	50.000 0V	300uV
100V Range	100.000V	100.000 7V	600uV
100V Range	-100.000V	-100.0013V	600uV
100V Range	-50.000V	-49.9999V	300uV
1kV Range	200.00V	199.997V	1.2mV
1kV Range	500.00V	499.998V	3mV
1kV Range	1 000.00V	999.997V	6mV
1kV Range	-1000.00V	-1000.004V	6mV
1kV Range	-500.00V	-500.001V	3mV
1kV Range	-200.00V	-200.003V	1.2mV
AC Voltage			
100mV A.C. : 10Hz	20.000mV	19.999 6mV	22uV
100mV A.C. : 40Hz	20.000mV	20.006 7mV	22uV
100mV A.C. : 206Hz	20.000mV	20.006 7mV	22uV
100mV A.C. : 20kHz	20.000mV	20.019 1mV	20uV
100mV A.C. : 206Hz	50.000mV	49.981 0mV	40uV
100mV A.C. : 10Hz	100.000mV	99.987 8mV	54uV
100mV A.C. : 40Hz	100.000mV	99.997 4mV	54uV
100mV A.C. : 56Hz	100.000mV	99.994 6mV	68uV
100mV A.C. : 206Hz	100.000mV	100.002 2mV	68uV
100mV A.C. : 1kHz	100.000mV	100.001 1mV	68uV
100mV A.C. : 10kHz	100.000mV	100.020 1mV	60uV
100mV A.C. : 20kHz	100.000mV	100.030 3mV	60uV
1V Range : 10Hz	0.200 00V	0.200 006V	130uV
1V Range : 40Hz	0.200 00V	0.199 992V	130uV
1V Range : 206Hz	0.200 00V	0.200 019V	85uV
1V Range : 20kHz	0.200 00V	0.200 073V	420uV
1V Range : 206Hz	0.500 00V	0.500 006V	135uV

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Test Title	Applied Value	Reading	Uncertainties
1V Range : 10Hz	1.000 00V	0.999 994V	260uV
1V Range : 40Hz	1.000 00V	0.999 844V	260uV
1V Range : 56Hz	1.000 00V	1.000 095V	220uV
1V Range : 206Hz	1.000 00V	0.999 987V	220uV
1V Range : 1kHz	1.000 00V	1.000 066V	220uV
1V Range : 5kHz	1.000 00V	0.999 998V	370uV
1V Range : 10kHz	1.000 00V	0.999 991V	370uV
1V Range : 20kHz	1.000 00V	0.999 989V	2mV
10V Range : 10Hz	2.000 0V	2.000 20V	1.3mV
10V Range : 40Hz	2.000 0V	1.998 01V	1.3mV
10V Range : 206Hz	2.000 0V	1.998 45V	0.8mV
10V Range : 20kHz	2.000 0V	1.998 26V	4.5mV
10V Range : 206Hz	3.000 0V	2.998 36V	1.5mV
10V Range : 206Hz	4.000 0V	3.998 56V	1.8mV
10V Range : 206Hz	6.000 0V	5.998 83V	2.5mV
10V Range : 206Hz	8.000 0V	7.999 90V	3.2mV
10V Range : 10Hz	10.000 0V	10.002 14V	2.6mV
10V Range : 40Hz	10.000 0V	9.997 19V	2.6mV
10V Range : 56Hz	10.000 0V	9.998 91V	2.2mV
10V Range : 206Hz	10.000 0V	10.001 47V	2.2mV
10V Range : 1kHz	10.000 0V	9.999 34V	2.2mV
10V Range : 5kHz	10.000 0V	9.998 22V	4mV
10V Range : 10kHz	10.000 0V	9.997 97V	4mV
10V Range : 20kHz	10.000 0V	9.998 02V	20mV
100V Range : 40Hz	20.000V	20.000 7V	14mV
100V Range : 206Hz	20.000V	19.996 6V	14mV
100V Range : 200Hz	50.000V	49.994 7V	28mV
100V Range : 1kHz	20.000V	19.996 2V	14mV
100V Range : 40Hz	100.000V	100.014 0V	51mV
100V Range : 56Hz	100.000V	100.014 0V	51mV
100V Range : 206Hz	100.000V	99.987 7V	51mV
100V Range : 1000Hz	100.000V	99.998 9V	51mV
1kV Range : 40Hz	200.00V	199.971V	230mV
1kV Range : 206Hz	200.00V	199.899V	230mV
1kV Range : 200Hz	500.00V	499.938V	510mV
1kV Range : 1kHz	200.00V	199.841V	230mV
1kV Range : 40Hz	700.00V	700.097V	700mV
1kV Range : 56Hz	700.00V	700.007V	700mV
1kV Range : 1kHz	700.00V	699.918V	700mV
1kV Range : 56Hz	1 000.00V	999.994V	980mV
1kV Range : 1000Hz	1 000.00V	999.906V	980mV
Linearity - 10V DC Range			
Linearity	9.000 00V	9.000 037V	54uV
Linearity	8.000 00V	8.000 053V	48uV
Linearity	7.000 00V	7.000 047V	42uV
Linearity	6.000 00V	6.000 023V	36uV
Linearity	5.000 00V	5.000 002V	30uV
Linearity	4.000 00V	4.000 043V	24uV
Linearity	3.000 00V	2.999 989V	18uV

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Linearity	2.000 00V	2.000 019V	12uV
Linearity	1.000 00V	1.000 036V	6uV
Linearity	-9.00000V	-9.000051V	54uV
Linearity	-8.00000V	-8.000036V	48uV
Linearity	-7.00000V	-7.000039V	42uV
Linearity	-6.00000V	-6.000021V	36uV
Linearity	-5.00000V	-5.000007V	30uV
Linearity	-4.00000V	-4.000029V	24uV
Linearity	-3.00000V	-3.000003V	18uV
Linearity	-2.00000V	-1.999990V	12uV
Linearity	-1.00000V	-0.999999V	6uV
DC Current			
100uA Range	0.000uA	-0.0067uA	0.3nA
100uA Range	100.000uA	100.011 3uA	1.5nA
100uA Range	50.000uA	50.002 1uA	0.9nA
100uA Range	20.000uA	19.996 5uA	0.5nA
100uA Range	-100.000uA	-100.0157uA	1.5nA
100uA Range	-50.000uA	-50.0025uA	0.9nA
100uA Range	-20.000uA	-19.9944uA	0.5nA
1mA Range	0.200 00mA	0.199 999mA	6nA
1mA Range	0.500 00mA	0.500 012mA	9.5nA
1mA Range	1.000 00mA	1.000 043mA	16nA
1mA Range	-0.20000mA	-0.199999mA	6nA
1mA Range	-0.50000mA	-0.500011mA	9.5nA
1mA Range	-1.00000mA	-1.000037mA	16nA
10mA Range	4.000 0mA	4.000 11mA	100nA
10mA Range	6.000 0mA	6.000 18mA	125nA
10mA Range	8.000 0mA	8.000 36mA	150nA
10mA Range	10.000 0mA	10.000 56mA	170nA
10mA Range	-2.0000mA	-2.00000mA	76nA
10mA Range	-4.0000mA	-4.00008mA	100nA
10mA Range	-6.0000mA	-6.00014mA	125nA
10mA Range	-8.0000mA	-8.00026mA	150nA
10mA Range	-10.0000mA	-10.00044mA	170nA
100mA Range	50.000mA	50.001 3mA	960nA
100mA Range	100.000mA	100.003 4mA	1.6uA
100mA Range	-20.000mA	-19.9998mA	610nA
100mA Range	-50.000mA	-50.0013mA	960nA
100mA Range	-100.000mA	-100.0041mA	1.6mA
1A Lead Check	100.00mA	99.95mA	1nA
1A Range	0.500 00A	0.499 987A	12uA
1A Range	1.000 00A	0.999 993A	21uA
1A Range	-0.20000A	-0.199986A	7uA
1A Range	-0.50000A	-0.500006A	12uA
1A Range	-1.00000A	-1.000011A	21uA
10A Range	5.000 0A	5.000 49A	415uA
10A Range	10.000 0A	10.001 72A	775uA

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10A Range	-2.0000A	-1.99948A	200uA
10A Range	-5.0000A	-4.99991A	415uA
10A Range	-10.0000A	-10.00072A	775uA
AC Current			
100uA Rng: 40Hz #	20.000uA	19.945uA	30nA
100uA Rng: 200Hz #	20.000uA	19.923uA	30nA
100uA Rng: 200Hz	50.000uA	49.911uA	23nA
100uA Rng: 2kHz #	20.000uA	19.957uA	80nA
100uA Rng: 10Hz #	100.000uA	100.002uA	80nA
100uA Rng: 40Hz	100.000uA	99.998uA	38nA
100uA Rng: 56Hz	100.000uA	99.998uA	38nA
100uA Rng: 1kHz	100.000uA	99.998uA	38nA
100uA Rng: 2kHz #	100.000uA	99.997uA	80nA
1mA Rng: 40Hz	0.200 00mA	0.200 05mA	125nA
1mA Rng: 200Hz	0.200 00mA	0.199 98mA	125nA
1mA Rng: 200Hz	0.500 00mA	0.499 95mA	220nA
1mA Rng: 2kHz #	0.200 00mA	0.199 99mA	250nA
1mA Rng: 10Hz #	1.000 00mA	0.999 97mA	1.5uA
1mA Rng: 40Hz	1.000 00mA	1.000 05mA	760nA
1mA Rng: 56Hz	1.000 00mA	1.000 04mA	760nA
1mA Rng: 1kHz	1.000 00mA	1.000 01mA	760nA
1mA Rng: 2kHz #	1.000 00mA	0.999 96mA	1.5uA
10mA Rng: 10Hz #	2.000 0mA	2.000 4mA	2.5uA
10mA Rng: 40Hz	2.000 0mA	2.000 2mA	1.3uA
10mA Rng: 200Hz	2.000 0mA	1.999 3mA	1.3uA
10mA Rng: 200Hz	5.000 0mA	4.999 7mA	2.2uA
10mA Rng: 2kHz #	2.000 0mA	1.999 1mA	2.6uA
10mA Rng: 56Hz	10.000 0mA	10.001 1mA	3.8uA
10mA Rng: 40Hz	10.000 0mA	10.002 5mA	3.8uA
10mA Rng: 1kHz	10.000 0mA	10.000 0mA	3.8uA
10mA Rng: 2kHz #	10.000 0mA	10.000 0mA	7.6uA
100mA Rng: 40Hz	20.000mA	19.995mA	13uA
100mA Rng: 200Hz	20.000mA	19.995mA	13uA
100mA Rng: 200Hz	50.000mA	49.996mA	22uA
100mA Rng: 2kHz #	20.000mA	19.993mA	44uA
100mA Rng: 10Hz #	100.000mA	100.024mA	76uA
100mA Rng: 40Hz	100.000mA	100.024mA	38uA
100mA Rng: 56Hz	100.000mA	100.014mA	38uA
100mA Rng: 1kHz	100.000mA	99.995mA	38uA
100mA Rng: 2kHz #	100.000mA	99.988mA	76uA
1A Rng: 40Hz	0.200 00A	0.199 96A	110uA
1A Rng: 200Hz	0.200 00A	0.199 84A	110uA
1A Rng: 200Hz	0.500 00A	0.499 64A	210uA
1A Rng: 2kHz #	0.200 00A	0.199 94A	420uA
1A Rng: 10Hz #	1.000 00A	0.999 61A	760uA
1A Rng: 40Hz	1.000 00A	0.999 97A	380uA
1A Rng: 56Hz	1.000 00A	0.999 97A	380uA
1A Rng: 1kHz	1.000 00A	1.000 00A	380uA
1A Rng: 2kHz #	1.000 00A	0.999 97A	760uA

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10A Rng: 40Hz	2.000 0A	1.998 4A	3.4mA
10A Rng: 200Hz	2.000 0A	1.997 1A	3.4mA
10A Rng: 200Hz	5.000 0A	4.995 8A	5.5mA
10A Rng: 10Hz #	10.000 0A	9.992 8A	18mA
10A Rng: 40Hz	10.000 0A	9.998 8A	9mA
10A Rng: 56Hz	10.000 0A	9.997 7A	9mA
10A Rng: 100Hz	10.000 0A	9.996 7A	9mA
10A Rng: 1kHz	10.000 0A	10.000 4A	9mA
10A Rng: 2kHz #	10.000 0A	10.000 2A	18mA
2 Wire Resistance measured as value at terminals.			
10 Ω 2 Wire	10.792 0 Ω	10.791 21 Ω	610 $\mu\Omega$
100 Ω 2 Wire	100.552 Ω	100.552 3 Ω	5.2m Ω
1k Ω 2 Wire	1.000 33k Ω	1.000 336k Ω	27m Ω
10k Ω 2 Wire	10.000 9k Ω	10.000 83k Ω	270m Ω
100k Ω 2 Wire	99.997k Ω	99.997 3k Ω	3.1 Ω
1M Ω 2 Wire	1.000 35M Ω	1.000 349M Ω	45 Ω
10M Ω 2 Wire	9.986 4M Ω	9.986 23M Ω	1.7k Ω
100M Ω 2 Wire	99.26M Ω	99.266M Ω	125k Ω
Simulated Ohms			
10 R Range	0.000 Ω	0.005 1 Ω	300 $\mu\Omega$
10 R Range	3.000 Ω	2.999 0 Ω	300 $\mu\Omega$
10 R Range	10.000 Ω	9.999 1 Ω	610 $\mu\Omega$
100 R Range	20.000 Ω	20.013 9 Ω	1.8m Ω
100 R Range	30.000 0 Ω	30.013 Ω	2.5m Ω
100 R Range	100.000 0 Ω	100.002 Ω	2.5m Ω
1k Ω Range	200.00 Ω	199.979 Ω	3.3m Ω
1k Ω Range	300.00 Ω	299.982 Ω	3.3m Ω
1k Ω Range	1 000.00 Ω	999.981 Ω	5.2m Ω
10k Ω Range	1.000 0k Ω	0.999 98k Ω	10m Ω
10k Ω Range	2.000 0k Ω	1.999 71k Ω	27m Ω
10k Ω Range	3.000k Ω	2.999 5k Ω	54m Ω
10k Ω Range	4.000k Ω	3.999 4k Ω	98m Ω
10k Ω Range	5.000k Ω	4.999 9k Ω	122m Ω
10k Ω Range	6.000k Ω	5.999 8k Ω	146m Ω
10k Ω Range	7.000k Ω	6.999 8k Ω	170m Ω
10k Ω Range	8.000k Ω	7.999 8k Ω	194m Ω
10k Ω Range	9.000k Ω	9.000 0k Ω	218m Ω
10k Ω Range	10.000k Ω	10.000 0k Ω	242m Ω
100k Ω Range	20.00k Ω	20.000k Ω	1.1 Ω
100k Ω Range	30.00k Ω	29.998k Ω	1.1 Ω
100k Ω Range	100.00k Ω	100.002k Ω	3.1 Ω
1M Ω Range	200.00k Ω	200.003k Ω	19 Ω
1M Ω Range	300.00k Ω	300.019k Ω	19 Ω
1M Ω Range	1 000.00k Ω	999.989k Ω	45 Ω
10M Ω Range	2.000M Ω	1.999 9M Ω	745 Ω
10M Ω Range	3.000M Ω	3.000 4M Ω	745 Ω
10M Ω Range	10.000M Ω	9.999 9M Ω	1.7k Ω
Capacitance (Measured at 1kHz)			
10nF	10.105nF	10.110nF	12pF
100nF	99.70nF	99.74nF	100pF
1 μ F	1.005 0 μ F	1.004 6 μ F	1nF

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Frequency			
100kHz	100.000kHz	99.999 5kHz	0.1Hz
50kHz	50.000kHz	49.999 7kHz	0.05Hz
20kHz	20.000kHz	19.999 9kHz	0.02Hz
10kHz	10.000kHz	9.999 95kHz	0.01Hz
1kHz	1.000kHz	0.999 996kHz	1mHz
100Hz	100.0Hz	99.999 6Hz	0.1mHz
A/D Input			
10V A/D Input	10.000 0V	10.000 0V	100uV
Thermocouple Output			
Cold Junction Compensation			
CJC Temp Measurement	20.7°C	20.7°C	0.2°C

Figures in brackets () are the equivalent temperature for the mV output

Temperature Simulation - Type K - CJC at 0°C - ITS90

-5.891mV (-200°C)	-5.891mV	-5.8910mV	1.4uV
-4.669mV (-140°C)	-4.669mV	-4.6688mV	1.4uV
-3.554mV (-100°C)	-3.554mV	-3.5537mV	1.4uV
-1.889mV (-50°C)	-1.889mV	-1.8889mV	1.4uV
-0.968mV (-25°C)	-0.968mV	-0.9667mV	1.4uV
0.000mV (0°C)	0.000mV	0.000 2mV	1.4uV
4.096mV (100°C)	4.096mV	4.096 2mV	1.4uV
2.023mV (122°F)	2.023mV	2.023 2mV	1.4uV
4.096mV (212°F)	4.096mV	4.096 2mV	1.4uV
4.920mV (120°C)	4.920mV	4.920 5mV	1.4uV
8.138mV (200°C)	8.138mV	8.138 8mV	1.4uV
20.644mV (500°C)	20.644mV	20.645 6mV	1.5uV
29.129mV (700°C)	29.129mV	29.131 2mV	1.5uV
41.276mV (1000°C)	41.276mV	41.280 0mV	1.6uV
54.819mV (1370°C)	54.819mV	54.825 5mV	1.7uV

Temperature Simulation - Type J - CJC at 0°C - ITS90

-8.095mV (-210°C)	-8.095mV	-8.0951mV	1.4uV
0.000mV (0°C)	0.000mV	0.000 2mV	1.4uV
21.848mV (400°C)	21.848mV	21.849 5mV	1.5uV
69.553mV (1200°C)	69.553mV	69.562 2mV	1.8uV

Temperature Simulation - Type T - CJC at 0°C - ITS90

-6.180mV (-250°C)	-6.180mV	-6.1799mV	1.4uV
0.000mV (0°C)	0.000mV	0.000 1mV	1.4uV
20.872mV (400°C)	20.872mV	20.873 3mV	1.5uV

Temperature Simulation - Type R - CJC at 0°C - ITS90

0.000mV (0°C)	0.000mV	0.000 2mV	1.4uV
3.408mV (400°C)	3.408mV	3.408 3mV	1.4uV
21.003mV (1760°C)	21.003mV	21.004 7mV	1.5uV

Temperature Simulation - Type S - CJC at 0°C - ITS90

0.000mV (0°C)	0.000mV	0.000 2mV	1.4uV
3.259mV (400°C)	3.259mV	3.259 4mV	1.4uV
18.609mV (1760°C)	18.609mV	18.610 5mV	1.5uV

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Temperature Simulation - Type N - CJC at 0°C - ITS90			
-3.990mV (-200°C)	-3.990mV	-3.9899mV	1.4uV
-0.646mV (-25°C)	-0.646mV	-0.6447mV	1.4uV
3.374mV (120°C)	3.374mV	3.374 5mV	1.4uV
47.513mV (1300°C)	47.513mV	47.518 1mV	1.7uV
Temperature Simulation - Type B - CJC at 0°C - ITS90			
1.792mV (600°C)	1.792mV	1.792 2mV	1.4uV
4.834mV (1000°C)	4.834mV	4.834 4mV	1.4uV
13.820mV (1820°C)	13.820mV	13.821 2mV	1.4uV
Temperature Simulation - Type E - CJC at 0°C - ITS90			
-9.718mV (-250°C)	-9.718mV	-9.7184mV	1.4uV
-1.432mV (-25°C)	-1.432mV	-1.4302mV	1.4uV
24.964mV (350°C)	24.964mV	24.966 1mV	1.5uV
76.373mV (1000°C)	76.373mV	76.383 9mV	2.2uV
Temperature Simulation - Type L - CJC at 0°C - ITS90			
-8.158mV (-200°C)	-8.158mV	-8.1672mV	1.4uV
0.000mV (0°C)	0.000mV	0.000 2mV	1.4uV
53.140mV (900°C)	53.140mV	53.140 7mV	1.7uV
Temperature Simulation - Type U - CJC at 0°C - ITS90			
-5.696mV (-200°C)	-5.696mV	-5.6921mV	1.4uV
0.000mV (0°C)	0.000mV	0.000 4mV	1.4uV
34.309mV (600°C)	34.309mV	34.310 1mV	1.6uV
Temperature Simulation - Type C - CJC at 0°C - ITS90			
0.000mV (0°C)	0.000mV	0.000 4mV	1.4uV
11.583mV (650°C)	11.583mV	11.584 1mV	1.4uV
18.257mV (1000°C)	18.257mV	18.258 7mV	1.5uV
37.070mV (2316°C)	37.070mV	37.073 8mV	1.6uV
Simulated PRT			
-100°C	-100.00°C	-100.00°C	0.1°C
0°C	0.000°C	0.004°C	0.1°C
30°C	30.000°C	29.992°C	0.1°C
100°C	100.00°C	99.99°C	0.1°C
200°C	200.00°C	199.97°C	0.1°C
400°C	400.00°C	400.00°C	0.1°C
800°C	800.00°C	799.94°C	0.1°C
Continuity Resistance			
10 R Range	0.000Ω	0.006 5Ω	300uΩ
10 R Range	3.000Ω	3.000 4Ω	300uΩ
10 R Range	10.000Ω	10.000 3Ω	610uΩ
50 R Range	20.000Ω	20.015 1Ω	610uΩ
50 R Range	30.000Ω	30.026 4Ω	610uΩ
50 R Range	50.000Ω	50.023 6Ω	610uΩ
500 R Range	100.000Ω	99.983 0Ω	610uΩ
500 R Range	200.000Ω	199.957 8Ω	610uΩ
500 R Range	500.000Ω	500.029 3Ω	610uΩ
5000 R Range	1 000.0Ω	999.77Ω	610uΩ

CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0324

AFTER ADJUSTMENT RESULTS

Certificate Number

27740

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Test Title	Applied Value	Reading	Uncertainties
5000 R Range	2 000.0 Ω	1 999.29 Ω	610 $\mu\Omega$
5000 R Range	5 000.0 Ω	4 999.78 Ω	610 $\mu\Omega$
Continuity Current			
50mA	50.0mA	50.1mA	0.2mA
100mA	100.0mA	100.0mA	0.2mA
200mA	200.0mA	199.8mA	0.2mA
300mA	300.0mA	299.7mA	0.2mA
Insulation Test Function			
100V - 250kohms	0.250 0M Ω	0.250 7M Ω	250 Ω
100V - 500kohms	0.500 0M Ω	0.499 9M Ω	250 Ω
100V - 1Mohms	1.000 0M Ω	1.000 6M Ω	500 Ω
100V - 2Mohms	2.000M Ω	1.996M Ω	1k Ω
100V - 5Mohms	5.000M Ω	4.994M Ω	2.5k Ω
100V - 10Mohms	10.00M Ω	9.99M Ω	5k Ω
100V - 50Mohms	50.00M Ω	49.85M Ω	2.5k Ω
100V - 100Mohms	100.00M Ω	99.84M Ω	50k Ω
250V - 250kohms	0.250 0M Ω	0.250 4M Ω	130 Ω
250V - 1Mohms	1.000 0M Ω	0.999 3M Ω	500 Ω
250V - 10Mohms	10.000M Ω	10.014M Ω	5k Ω
250V - 100Mohms	100.00M Ω	99.95M Ω	50k Ω
250V - 250Mohms	250.00M Ω	249.72M Ω	130k Ω
500V - 500kohms	0.500 0M Ω	0.500 5M Ω	250 Ω
500V - 1Mohms	1.000 0M Ω	0.999 4M Ω	500 Ω
500V - 10Mohms	10.000M Ω	9.994M Ω	5k Ω
500V - 500Mohms	500.0M Ω	499.6M Ω	250k Ω
1000V - 1Mohms	1.000 0M Ω	1.000 5M Ω	500 Ω
1000V - 10Mohms	10.000M Ω	9.995M Ω	5k Ω
1000V - 100Mohms	100.00M Ω	99.85M Ω	50k Ω
1000V - 1Gohms	1 000.0M Ω	998.5M Ω	500k Ω