CERTIFICATE OF CALIBRATION

Issued By Transmille Ltd.

Date of Issue EXAMPLE

Certificate Number
EXAMPLE

0324

Approved Signatory

Transmille Ltd.
Unit 4, Select Business Centre
Lodge Road
Staplehurst, Kent. TN12 0QW.
TEL 01580 890700 FAX 01580 890711

www.transmille.com

Customer : EXAMPLE

Date Received : EXAMPLE

Instrument :

System ID :	EXAMPLE
Description :	Advanced Multiproduct Calibrator
Manufacturer :	Transmille
Model Number :	4610A
Serial Number :	EXAMPLE
Procedure Number & Version :	9271 : 2.4/N

Environmental Conditions

Temperature :	23 °C ± 1 °C	Mains Voltage :	240 V ± 12 V
Relative Humidity :	40 %rh ± 20 %rh	Mains Frequency :	50 Hz ± 1 Hz

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

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 $k = 2$, which for a normal distribution corresponds to a coverage probability 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 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.

AS LEFT RESULTS

Test Title	Applied Value	Reading	Uncertainty
DC Voltage			
200mV Range	0.0000 mV	-0.0002 mV	±0.6 uV
200mV Range	50.0000 mV	50.0001 mV	±0.8 uV
200mV Range	100.0000 mV	100.0000 mV	±0.8 uV
200mV Range	190.0000 mV	190.0000 mV	±0.9 uV
200mV Range	-100.0000 mV	-100.0001 mV	±0.8 uV
200mV Range	-190.0000 mV	-190.0003 mV	±0.9 uV
2V Range	0.2200000 V	0.2200007 V	±0.9 uV
2V Range	0.5000000 V	0.5000011 V	±2.1 uV
2V Range	1.0000000 V	1.0000013 V	±2.1 uV
2V Range	1.9000000 V	1.9000001 V	±7 uV
2V Range	-0.2200000 V	-0.2199989 V	±0.9 uV
2V Range	-1.0000000 V	-1.0000002 V	±2.1 uV
2V Range	-1.9000000 V	-1.9000011 V	±7 uV
20V Range	2.200000 V	2.200008 V	±7 uV
20V Range	10.000000 V	10.000007 V	±33 uV
20V Range	19.000000 V	18.999987 V	±66 uV
20V Range	-2.200000 V	-2.199994 V	±7 uV
20V Range	-10.000000 V	-10.000006 V	±33 uV
20V Range	-19.000000 V	-19.000007 V	±66 uV
200V Range	100.00000 V	100.00020 V	±330 uV
200V Range	190.00000 V	190.00035 V	±660 uV
200V Range	-190.00000 V	-189.99994 V	±660 uV
200V Range	-100.00000 V	-99.99977 V	±330 uV
1kV Range	220.0000 V	220.0002 V	±0.8 mV
1kV Range	500.0000 V	500.0003 V	±0.8 mV
1kV Range	1000.0000 V	999.9997 V	±3.3 mV
1kV Range	-1000.0000 V	-1000.0001 V	±3.3 mV
1kV Range	-500.0000 V	-500.0009 V	±0.8 mV
1kV Range	-220.0000 V	-220.0010 V	±0.8 mV
Linearity - 20V DC Range			
Linearity	20.000000 V	19.999970 V	±63 uV
Linearity	18.000000 V	17.999992 V	±60 uV
Linearity	17.000000 V	16.999994 V	±57 uV
Linearity	16.000000 V	16.000001 V	±53 uV
Linearity	15.000000 V	15.000007 V	±50 uV
Linearity	14.000000 V	14.000004 V	±47 uV
Linearity	13.000000 V	13.000008 V	±43 uV
Linearity	12.000000 V	12.000006 V	±40 uV
Linearity	11.000000 V	11.000009 V	±37 uV
Linearity	9.000000 V	9.000012 V	±30 uV
Linearity	8.000000 V	8.000014 V	±27 uV
Linearity	7.000000 V	7.000018 V	±24 uV
Linearity	6.000000 V	6.000021 V	±20 uV
Linearity	5.000000 V	5.000023 V	±17 uV
Linearity	4.000000 V	4.000019 V	±14 uV
Linearity	3.000000 V	3.000021 V	±10 uV

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Test Title	Applied Value	Reading	Uncertainty
Linearity	2.100000 V	2.100017 V	±7 uV
Linearity	-2.100000 V	-2.099997 V	±7 uV
Linearity	-3.000000 V	-3.000001 V	±10 uV
Linearity	-4.000000 V	-4.000002 V	±14 uV
Linearity	-5.000000 V	-5.000005 V	±17 uV
Linearity	-6.000000 V	-6.000007 V	±20 uV
Linearity	-7.000000 V	-7.000006 V	±24 uV
Linearity	-8.000000 V	-8.000010 V	±27 uV
Linearity	-9.000000 V	-9.000010 V	±30 uV
Linearity	-11.000000 V	-11.000009 V	±37 uV
Linearity	-12.000000 V	-12.000012 V	±40 uV
Linearity	-13.000000 V	-13.000012 V	±43 uV
Linearity	-14.000000 V	-14.000012 V	±47 uV
Linearity	-15.000000 V	-15.000015 V	±50 uV
Linearity	-16.000000 V	-16.000014 V	±53 uV
Linearity	-17.000000 V	-17.000013 V	±57 uV
Linearity	-18.000000 V	-18.000016 V	±60 uV
Linearity	-20.000000 V	-20.000015 V	±63 uV

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Test Title	Applied Value	Reading	Uncertainty
AC Voltage Frequency			
10Hz @ 2V	10.000000 Hz	9.999995 Hz	±1 uHz
100Hz @ 2V	100.00000 Hz	99.99995 Hz	±10 uHz
1kHz @ 2V	1.0000000 kHz	0.9999995 kHz	±100 uHz
10kHz @ 2V	10.000000 kHz	9.999995 kHz	±1 mHz
100kHz @ 2V	100.00000 kHz	99.99995 kHz	±10 mHz
1MHz @ 2V	1.0000000 MHz	0.9999995 MHz	±100 mHz
AC Voltage			
20mV A.C : 10Hz	2.0000 mV	2.0002 mV	±6 uV
20mV A.C : 45Hz	2.0000 mV	2.0005 mV	±3.2 uV
20mV A.C : 56Hz	2.0000 mV	2.0002 mV	±3.2 uV
20mV A.C : 206Hz	2.0000 mV	2.0001 mV	±3.2 uV
20mV A.C : 400Hz	2.0000 mV	2.0001 mV	±3.2 uV
20mV A.C : 1kHz	2.0000 mV	2.0001 mV	±3.2 uV
20mV A.C : 20kHz	2.0000 mV	2.0003 mV	±3.2 uV
20mV A.C : 50kHz	2.0000 mV	2.0008 mV	±5 uV
20mV A.C : 100kHz	2.0000 mV	2.0011 mV	±6 uV
20mV A.C : 500kHz	2.0000 mV	2.0171 mV	±15 uV
20mV A.C : 10Hz	10.0000 mV	9.9991 mV	±5.3 uV
20mV A.C : 1kHz	10.0000 mV	9.9991 mV	±3.4 uV
20mV A.C : 500kHz	10.0000 mV	10.0003 mV	±20 uV
20mV A.C : 10Hz	19.0000 mV	18.9998 mV	±9 uV
20mV A.C : 45Hz	19.0000 mV	19.0004 mV	±5 uV
20mV A.C : 1kHz	19.0000 mV	18.9997 mV	±5 uV
20mV A.C : 10kHz	19.0000 mV	18.9994 mV	±5 uV
20mV A.C : 20kHz	19.0000 mV	18.9989 mV	±5 uV
20mV A.C : 30kHz	19.0000 mV	19.0000 mV	±8 uV
20mV A.C : 50kHz	19.0000 mV	18.9977 mV	±8 uV
20mV A.C : 100kHz	19.0000 mV	19.0001 mV	±10 uV
20mV A.C : 500kHz	19.0000 mV	19.0005 mV	±30 uV
200mV A.C : 10Hz	21.0000 mV	20.9986 mV	±9 uV
200mV A.C : 206Hz	21.0000 mV	21.0006 mV	±5 uV
200mV A.C : 400Hz	21.0000 mV	21.0004 mV	±5 uV
200mV A.C : 1kHz	21.0000 mV	21.0008 mV	±5 uV
200mV A.C : 10kHz	21.0000 mV	21.0009 mV	±5 uV
200mV A.C : 20kHz	21.0000 mV	21.0014 mV	±5 uV
200mV A.C : 50kHz	21.0000 mV	21.0038 mV	±8 uV
200mV A.C : 100kHz	21.0000 mV	21.0114 mV	±11 uV
200mV A.C : 500kHz	21.0000 mV	21.0468 mV	±31 uV
200mV A.C : 10Hz	100.0000 mV	99.9983 mV	±27 uV
200mV A.C : 1kHz	100.0000 mV	100.0037 mV	±7 uV
200mV A.C : 500kHz	100.0000 mV	100.0061 mV	±55 uV
200mV A.C : 10Hz	190.0000 mV	189.9995 mV	±48 uV
200mV A.C : 45Hz	190.0000 mV	190.0038 mV	±11 uV
200mV A.C : 1kHz	190.0000 mV	189.9973 mV	±11 uV
200mV A.C : 10kHz	190.0000 mV	189.9952 mV	±11 uV
200mV A.C : 20kHz	190.0000 mV	189.9939 mV	±11 uV
200mV A.C : 30kHz	190.0000 mV	189.9998 mV	±14 uV
200mV A.C : 50kHz	190.0000 mV	189.9761 mV	±14 uV

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Test Title	Applied Value	Reading	Uncertainty
200mV A.C : 100kHz	190.0000 mV	190.0001 mV	±25 uV
200mV A.C : 500kHz	190.0000 mV	190.0027 mV	±64 uV
2V Range : 10Hz	0.210000 V	0.209986 V	±53 uV
2V Range : 206Hz	0.210000 V	0.209992 V	±12 uV
2V Range : 400Hz	0.210000 V	0.209990 V	±12 uV
2V Range : 1kHz	0.210000 V	0.210007 V	±12 uV
2V Range : 20kHz	0.210000 V	0.210020 V	±12 uV
2V Range : 50kHz	0.210000 V	0.210061 V	±20 uV
2V Range : 100kHz	0.210000 V	0.209892 V	±43 uV
2V Range : 500kHz	0.210000 V	0.209661 V	±110 uV
2V Range : 1MHz	0.210000 V	0.209688 V	±260 uV
2V Range : 10Hz	1.000000 V	0.999970 V	±235 uV
2V Range : 206Hz	1.000000 V	0.999965 V	±30 uV
2V Range : 400Hz	1.000000 V	0.999930 V	±30 uV
2V Range : 1kHz	1.000000 V	1.000012 V	±30 uV
2V Range : 1MHz	1.000000 V	1.001917 V	±1.05 mV
2V Range : 10Hz	1.900000 V	1.899988 V	±441 uV
2V Range : 45Hz	1.900000 V	1.899942 V	±55 uV
2V Range : 1kHz	1.900000 V	1.899988 V	±55 uV
2V Range : 20kHz	1.900000 V	1.899955 V	±55 uV
2V Range : 30kHz	1.900000 V	1.900005 V	±105 uV
2V Range : 50kHz	1.900000 V	1.899795 V	±105 uV
2V Range : 100kHz	1.900000 V	1.899418 V	±160 uV
2V Range : 500kHz	1.900000 V	1.902041 V	±570 uV
2V Range : 1MHz	1.900000 V	1.900014 V	±2 mV
20V Range : 10Hz	2.10000 V	2.10008 V	±490 uV
20V Range : 45Hz	2.10000 V	2.10012 V	±60 uV
20V Range : 1kHz	2.10000 V	2.10011 V	±60 uV
20V Range : 10kHz	2.10000 V	2.10003 V	±60 uV
20V Range : 20kHz	2.10000 V	2.10010 V	±60 uV
20V Range : 50kHz	2.10000 V	2.10019 V	±116 uV
20V Range : 100kHz	2.10000 V	2.09985 V	±180 uV
20V Range : 10Hz	10.00000 V	10.00009 V	±2.34 mV
20V Range : 1kHz	10.00000 V	10.00029 V	±285 uV
20V Range : 100kHz	10.00000 V	9.99744 V	±960 uV
20V Range : 10Hz	19.00000 V	19.00042 V	±4.42 mV
20V Range : 45Hz	19.00000 V	18.99996 V	±540 uV
20V Range : 1kHz	19.00000 V	18.99989 V	±540 uV
20V Range : 10kHz	19.00000 V	18.99912 V	±540 uV
20V Range : 20kHz	19.00000 V	18.99905 V	±540 uV
20V Range : 30kHz	19.00000 V	19.00041 V	±1.1 mV
20V Range : 50kHz	19.00000 V	18.99982 V	±1.1 mV
20V Range : 100kHz	19.00000 V	19.00082 V	±1.85 mV
200V Range : 10Hz	21.0000 V	21.0008 V	±4.9 mV
200V Range : 45Hz	21.0000 V	21.0015 V	±600 uV
200V Range : 1kHz	21.0000 V	21.0004 V	±600 uV
200V Range : 10kHz	21.0000 V	21.0008 V	±600 uV
200V Range : 20kHz	21.0000 V	21.0013 V	±600 uV
200V Range : 50kHz	21.0000 V	20.9984 V	±1.2 mV

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Test Title	Applied Value	Reading	Uncertainty
200V Range : 100kHz	21.0000 V	20.9960 V	±2.1 mV
200V Range : 10Hz	100.0000 V	99.9951 V	±23 mV
200V Range : 1kHz	100.0000 V	99.9968 V	±3.6 mV
200V Range : 100kHz	100.0000 V	99.9676 V	±11.5 mV
200V Range : 10Hz	190.0000 V	189.9981 V	±44 mV
200V Range : 45Hz	190.0000 V	189.9943 V	±6.9 mV
200V Range : 1kHz	190.0000 V	189.9930 V	±6.9 mV
200V Range : 10kHz	190.0000 V	189.9972 V	±6.9 mV
200V Range : 20kHz	190.0000 V	189.9976 V	±6.9 mV
200V Range : 30kHz	190.0000 V	189.9946 V	±16 mV
200V Range : 50kHz	190.0000 V	189.9896 V	±16 mV
200V Range : 100kHz	190.0000 V	190.0034 V	±22 mV
1kV Range : 30Hz	210.0000 V	209.9923 V	±17 mV
1kV Range : 45Hz	210.0000 V	210.0029 V	±8 mV
1kV Range : 1kHz	210.0000 V	210.0059 V	±8 mV
1kV Range : 10kHz	210.0000 V	209.9922 V	±8 mV
1kV Range : 20kHz	210.0000 V	209.9906 V	±8 mV
1kV Range : 30Hz	500.0000 V	499.9723 V	±58 mV
1kV Range : 206Hz	500.0000 V	500.0127 V	±25 mV
1kV Range : 400Hz	500.0000 V	500.0101 V	±25 mV
1kV Range : 1kHz	500.0000 V	500.0097 V	±25 mV
1kV Range : 10kHz	500.0000 V	499.9875 V	±25 mV
1kV Range : 30Hz	750.0000 V	750.0351 V	±85 mV
1kV Range : 45Hz	750.0000 V	750.0075 V	±34 mV
1kV Range : 1kHz	750.0000 V	750.0383 V	±34 mV
1kV Range : 5kHz	750.0000 V	750.0559 V	±34 mV
1kV Range : 10kHz	750.0000 V	750.0120 V	±34 mV
1kV Range : 45Hz	1000.0000 V	1000.0102 V	±45 mV
1kV Range : 1kHz	1000.0000 V	1000.0553 V	±45 mV
1kV Range : 5kHz	1000.0000 V	1000.0934 V	±45 mV
1kV Range : 7kHz	1000.0000 V	1000.0769 V	±45 mV
1kV Range : 10kHz	1000.0000 V	999.9977 V	±45 mV

AS LEFT RESULTS

Test Title	Applied Value	Reading	Uncertainty
DC Current			
200uA Range	0.0000 uA	-0.0002 uA	±0.1 nA
200uA Range	190.0000 uA	189.9999 uA	±1.9 nA
200uA Range	190.0000 uA	190.0000 uA	±1.9 nA
2mA Range	0.210000 mA	0.209999 mA	±1.9 nA
2mA Range	1.900000 mA	1.899998 mA	±30 nA
2mA Range	-1.900000 mA	-1.900002 mA	±30 nA
20mA Range	2.10000 mA	2.09999 mA	±30 nA
20mA Range	19.00000 mA	18.99999 mA	±195 nA
20mA Range	-19.00000 mA	-19.00000 mA	±195 nA
200mA Range	21.0000 mA	20.9998 mA	±200 nA
200mA Range	190.0000 mA	189.9998 mA	±2.5 uA
200mA Range	-190.0000 mA	-189.9999 mA	±2.5 uA
2A Range	0.210000 A	0.210001 A	±8.7 uA
2A Range	1.900000 A	1.899997 A	±120 uA
2A Range	-1.900000 A	-1.899997 A	±120 uA
30A Range	2.10000 A	2.10017 A	±0.13 mA
30A Range	10.00000 A	10.00051 A	±0.55 mA
30A Range	20.00000 A	20.00031 A	±1.3 mA
30A Range	30.00000 A	30.00049 A	±1.9 mA
30A Range	-30.00000 A	-30.00063 A	±1.9 mA

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Test Title	Applied Value	Reading	Uncertainty
AC Current			
200uA Rng: 10Hz #	25.000 uA	24.998 uA	±15 nA
200uA Rng: 23Hz #	25.000 uA	25.000 uA	±15 nA
200uA Rng: 45Hz	25.000 uA	25.000 uA	±5 nA
200uA Rng: 60Hz	25.000 uA	24.998 uA	±5 nA
200uA Rng: 206Hz	25.000 uA	24.999 uA	±5 nA
200uA Rng: 400Hz	25.000 uA	24.997 uA	±5 nA
200uA Rng: 1kHz	25.000 uA	24.999 uA	±5 nA
200uA Rng: 5kHz#	25.000 uA	24.993 uA	±10 nA
200uA Rng: 10kHz#	25.000 uA	24.969 uA	±15 nA
200uA Rng: 30kHz#	25.000 uA	24.998 uA	±15 nA
200uA Rng: 10Hz#	100.000 uA	99.994 uA	±30 nA
200uA Rng: 23Hz#	100.000 uA	100.000 uA	±30 nA
200uA Rng: 60Hz	100.000 uA	99.987 uA	±15 nA
200uA Rng: 206Hz	100.000 uA	99.991 uA	±15 nA
200uA Rng: 400Hz	100.000 uA	99.987 uA	±15 nA
200uA Rng: 1kHz	100.000 uA	99.994 uA	±15 nA
200uA Rng: 30kHz#	100.000 uA	99.993 uA	±40 nA
200uA Rng: 10Hz	190.000 uA	190.002 uA	±60 nA
200uA Rng: 45Hz	190.000 uA	190.001 uA	±40 nA
200uA Rng: 206Hz	190.000 uA	189.997 uA	±40 nA
200uA Rng: 400Hz	190.000 uA	189.987 uA	±40 nA
200uA Rng: 1kHz	190.000 uA	190.000 uA	±40 nA
200uA Rng: 5kHz	190.000 uA	190.015 uA	±50 nA
200uA Rng: 10kHz	190.000 uA	190.002 uA	±50 nA
200uA Rng: 20kHz	190.000 uA	190.156 uA	±140 nA
200uA Rng: 30kHz	190.000 uA	190.002 uA	±140 nA
2mA Rng: 10Hz	0.21000 mA	0.20998 mA	±70 nA
2mA Rng: 45Hz	0.21000 mA	0.21000 mA	±40 nA
2mA Rng: 1kHz	0.21000 mA	0.21000 mA	±40 nA
2mA Rng: 3kHz	0.21000 mA	0.20998 mA	±50 nA
2mA Rng: 5kHz	0.21000 mA	0.20999 mA	±50 nA
2mA Rng: 7kHz	0.21000 mA	0.20997 mA	±50 nA
2mA Rng: 10kHz	0.21000 mA	0.20991 mA	±50 nA
2mA Rng: 20kHz	0.21000 mA	0.21011 mA	±150 nA
2mA Rng: 30kHz	0.21000 mA	0.21035 mA	±150 nA
2mA Rng: 10Hz	1.00000 mA	1.00001 mA	±260 nA
2mA Rng: 23Hz	1.00000 mA	1.00005 mA	±260 nA
2mA Rng: 1kHz	1.00000 mA	1.00001 mA	±120 nA
2mA Rng: 30kHz	1.00000 mA	1.00066 mA	±700 nA
2mA Rng: 10Hz	1.90000 mA	1.90001 mA	±900 nA
2mA Rng: 45Hz	1.90000 mA	1.90002 mA	±450 nA
2mA Rng: 1kHz	1.90000 mA	1.90004 mA	±450 nA
2mA Rng: 3kHz	1.90000 mA	1.89976 mA	±600 nA
2mA Rng: 5kHz	1.90000 mA	1.89985 mA	±600 nA
2mA Rng: 7kHz	1.90000 mA	1.89969 mA	±600 nA
2mA Rng: 10kHz	1.90000 mA	1.89905 mA	±600 nA
2mA Rng: 20kHz	1.90000 mA	1.89919 mA	±2 uA
2mA Rng: 30kHz	1.90000 mA	1.89680 mA	±2 uA

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Test Title	Applied Value	Reading	Uncertainty
20mA Rng: 10Hz	2.1000 mA	2.0999 mA	±900 nA
20mA Rng: 23Hz	2.1000 mA	2.1000 mA	±900 nA
20mA Rng: 45Hz	2.1000 mA	2.1000 mA	±450 nA
20mA Rng: 1kHz	2.1000 mA	2.1000 mA	±450 nA
20mA Rng: 3kHz	2.1000 mA	2.0999 mA	±700 nA
20mA Rng: 5kHz	2.1000 mA	2.0998 mA	±700 nA
20mA Rng: 7kHz	2.1000 mA	2.0996 mA	±700 nA
20mA Rng: 10kHz	2.1000 mA	2.0996 mA	±700 nA
20mA Rng: 20kHz	2.1000 mA	2.1007 mA	±2 uA
20mA Rng: 30kHz	2.1000 mA	2.1012 mA	±2 uA
20mA Rng: 10Hz	10.0000 mA	9.9997 mA	±3 uA
20mA Rng: 1kHz	10.0000 mA	9.9999 mA	±1.3 uA
20mA Rng: 5kHz	10.0000 mA	9.9994 mA	±1.3 uA
20mA Rng: 10kHz	10.0000 mA	9.9993 mA	±2 uA
20mA Rng: 30kHz	10.0000 mA	9.9919 mA	±9 uA
20mA Rng: 10Hz	19.0000 mA	18.9999 mA	±5 uA
20mA Rng: 45Hz	19.0000 mA	18.9999 mA	±3 uA
20mA Rng: 1kHz	19.0000 mA	18.9995 mA	±3 uA
20mA Rng: 3kHz	19.0000 mA	18.9991 mA	±4 uA
20mA Rng: 5kHz	19.0000 mA	18.9983 mA	±4 uA
20mA Rng: 7kHz	19.0000 mA	18.9979 mA	±4 uA
20mA Rng: 10kHz	19.0000 mA	18.9998 mA	±4 uA
20mA Rng: 20kHz	19.0000 mA	19.0113 mA	±13 uA
20mA Rng: 30kHz	19.0000 mA	18.9999 mA	±13 uA
200mA Rng: 10Hz	21.0000 mA	21.0003 mA	±7 uA
200mA Rng: 45Hz	21.0000 mA	21.0021 mA	±3 uA
200mA Rng: 1kHz	21.0000 mA	20.9999 mA	±3 uA
200mA Rng: 5kHz	21.0000 mA	21.0088 mA	±3 uA
200mA Rng: 10kHz	21.0000 mA	21.0157 mA	±5 uA
200mA Rng: 20kHz	21.0000 mA	21.0657 mA	±20 uA
200mA Rng: 30kHz	21.0000 mA	21.0923 mA	±20 uA
200mA Rng: 10Hz	100.0000 mA	99.9996 mA	±30 uA
200mA Rng: 23Hz	100.0000 mA	100.0049 mA	±30 uA
200mA Rng: 1kHz	100.0000 mA	100.0018 mA	±15 uA
200mA Rng: 30kHz	100.0000 mA	100.0630 mA	±40 uA
200mA Rng: 10Hz	190.0000 mA	189.9983 mA	±51 uA
200mA Rng: 45Hz	190.0000 mA	190.0001 mA	±25 uA
200mA Rng: 1kHz	190.0000 mA	189.9966 mA	±25 uA
200mA Rng: 3kHz	190.0000 mA	190.0069 mA	±25 uA
200mA Rng: 5kHz	190.0000 mA	190.0035 mA	±25 uA
200mA Rng: 7kHz	190.0000 mA	189.9967 mA	±40 uA
200mA Rng: 10kHz	190.0000 mA	189.9980 mA	±40 uA
200mA Rng: 20kHz	190.0000 mA	190.1851 mA	±80 uA
200mA Rng: 30kHz	190.0000 mA	189.9963 mA	±80 uA
2A Rng: 10Hz	0.210000 A	0.210042 A	±80 uA
2A Rng: 45Hz	0.210000 A	0.210046 A	±40 uA
2A Rng: 1kHz	0.210000 A	0.210002 A	±40 uA
2A Rng: 3kHz	0.210000 A	0.210142 A	±70 uA
2A Rng: 7kHz	0.210000 A	0.210251 A	±70 uA
2A Rng: 10kHz	0.210000 A	0.210324 A	±70 uA

AS LEFT RESULTS

Test Title	Applied Value	Reading	Uncertainty
2A Rng: 10kHz	0.210000 A	0.210324 A	±70 uA
2A Rng: 20kHz	0.210000 A	0.210737 A	±100 uA
2A Rng: 30kHz	0.210000 A	0.211427 A	±100 uA
2A Rng: 10Hz	1.000000 A	1.000191 A	±300 uA
2A Rng: 23Hz	1.000000 A	1.000229 A	±300 uA
2A Rng: 1kHz	1.000000 A	1.000169 A	±130 uA
2A Rng: 7kHz	1.000000 A	1.000190 A	±200 uA
2A Rng: 10kHz	1.000000 A	1.000125 A	±200 uA
2A Rng: 20kHz	1.000000 A	0.999983 A	±400 uA
2A Rng: 30kHz	1.000000 A	1.000263 A	±400 uA
2A Rng: 10Hz	1.900000 A	1.900062 A	±600 uA
2A Rng: 45Hz	1.900000 A	1.899998 A	±300 uA
2A Rng: 1kHz	1.900000 A	1.900008 A	±300 uA
2A Rng: 3kHz	1.900000 A	1.900123 A	±400 uA
2A Rng: 5kHz	1.900000 A	1.900020 A	±400 uA
2A Rng: 7kHz	1.900000 A	1.899828 A	±400 uA
2A Rng: 10kHz	1.900000 A	1.899622 A	±400 uA
30A Rng: 10Hz	2.10000 A	2.10025 A	±600 uA
30A Rng: 23Hz	2.10000 A	2.10035 A	±600 uA
30A Rng: 45Hz	2.10000 A	2.10038 A	±250 uA
30A Rng: 1kHz	2.10000 A	2.10004 A	±250 uA
30A Rng: 2kHz	2.10000 A	2.10026 A	±400 uA
30A Rng: 5kHz	2.10000 A	2.10329 A	±400 uA
30A Rng: 10kHz	2.10000 A	2.10747 A	±400 uA
30A Rng: 10Hz	10.00000 A	9.99920 A	±3 mA
30A Rng: 23Hz	10.00000 A	9.99993 A	±3 mA
30A Rng: 45Hz	10.00000 A	9.99966 A	±1.5 mA
30A Rng: 1kHz	10.00000 A	9.99953 A	±1.5 mA
30A Rng: 10kHz	10.00000 A	9.99892 A	±2 mA
30A Rng: 10Hz	20.0000 A	20.0008 A	±5.5 mA
30A Rng: 23Hz	20.0000 A	20.0020 A	±5.5 mA
30A Rng: 45Hz	20.0000 A	20.0012 A	±3 mA
30A Rng: 1kHz	20.0000 A	20.0026 A	±3 mA
30A Rng: 5kHz	20.0000 A	20.0028 A	±5 mA
30A Rng: 30Hz	30.0000 A	29.9956 A	±9 mA
30A Rng: 1kHz	30.0000 A	29.9985 A	±5 mA
30A Rng: 5kHz	30.0000 A	29.9987 A	±7 mA

CERTIFICATE OF CALIBRATION

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AS LEFT RESULTS

Test Title	Applied Value	Reading	Uncertainty
2 Wire Resistance measured as value at terminals.			
0R 2 Wire	0.2726 Ω	0.2723 Ω	±0.8 mΩ
0.1R 2 Wire	0.3855 Ω	0.3841 Ω	±0.8 mΩ
1R 2 Wire	1.382761 Ω	1.382825 Ω	±0.8 mΩ
10R 2 Wire	10.32862 Ω	10.32925 Ω	±1 mΩ
100R 2 Wire	100.3425 Ω	100.3425 Ω	±1.3 mΩ
1kR 2 Wire	1.000399 kΩ	1.000399 kΩ	±3.8 mΩ
10kR 2 Wire	10.00050 kΩ	10.00049 kΩ	±21 mΩ
100kR 2 Wire	100.0023 kΩ	100.0022 kΩ	±620 mΩ
1MR 2 Wire	0.999998 MΩ	0.999998 MΩ	±14 Ω
10MR 2 Wire	10.00177 MΩ	10.00181 MΩ	±290 Ω
100MR 2 Wire	99.8586 MΩ	99.8510 MΩ	±53 kΩ
1GR 2 Wire	1.003120 GΩ	1.002322 GΩ	±390 kΩ
4 Wire Ohms Measured relative to Zero			
100mR 4 Wire	99.70 mΩ	99.70 mΩ	±132 uΩ
1R 4 Wire	1.00004 Ω	1.00003 Ω	±143 uΩ
10R 4 Wire	9.997502 Ω	9.997479 Ω	±150 uΩ
100R 4 Wire	99.99858 Ω	99.99859 Ω	±0.4 mΩ
1kR 4 Wire	1.0000442 kΩ	1.0000442 kΩ	±3 mΩ
10kR 4 Wire	10.000085 kΩ	10.000090 kΩ	±30 mΩ
100kR 4 Wire	100.00153 kΩ	100.00164 kΩ	±800 mΩ
1MR 4 Wire	1.000000 MΩ	1.000001 MΩ	±18 Ω
10MR 4 Wire	10.00194 MΩ	10.00197 MΩ	±290 Ω
100MR 4 Wire	99.8643 MΩ	99.8656 MΩ	±60 kΩ
Simulated Ohms (4 Wire)			
10 R Range	0.0000 Ω	0.0001 Ω	±140 uΩ
10 R Range	1.0000 Ω	1.0001 Ω	±140 uΩ
10 R Range	10.0000 Ω	9.9999 Ω	±220 uΩ
33 R Range	10.1000 Ω	10.1001 Ω	±240 uΩ
33 R Range	33.0000 Ω	33.0000 Ω	±540 uΩ
100 R Range	33.1000 Ω	33.1000 Ω	±540 uΩ
100 R Range	100.0000 Ω	100.0003 Ω	±1.4 mΩ
330 R Range	100.1000 Ω	100.1009 Ω	±1.5 mΩ
330 R Range	330.00000 Ω	329.99970 Ω	±5.2 mΩ
330 R Range - Low I	330.00000 Ω	329.99880 Ω	±5.2 mΩ
1kR Range	0.330000 kΩ	0.330000 kΩ	±5.4 mΩ
1kR Range	0.500000 kΩ	0.500003 kΩ	±7.6 mΩ
1kR Range	1.000000 kΩ	1.000001 kΩ	±15 mΩ
3.3kR Range	1.10000 kΩ	1.10000 kΩ	±21 mΩ
3.3kR Range	3.30000 kΩ	3.29999 kΩ	±54 mΩ
10kR Range	3.30000 kΩ	3.29999 kΩ	±54 mΩ
10kR Range	4.00000 kΩ	4.00000 kΩ	±64 mΩ
10kR Range	5.00000 kΩ	5.00003 kΩ	±77 mΩ
10kR Range	6.00000 kΩ	6.00001 kΩ	±91 mΩ
10kR Range	7.00000 kΩ	7.00003 kΩ	±110 mΩ
10kR Range	8.00000 kΩ	8.00005 kΩ	±120 mΩ
10kR Range	9.00000 kΩ	9.00008 kΩ	±140 mΩ
10kR Range	10.00000 kΩ	10.00000 kΩ	±150 mΩ
33kR Range	10.1000 kΩ	10.1000 kΩ	±200 mΩ
33kR Range	33.0000 kΩ	32.9997 kΩ	±560 mΩ

AS LEFT RESULTS

Test Title	Applied Value	Reading	Uncertainty
100kR Range	33.0000 kΩ	33.0000 kΩ	±1.2 Ω
100kR Range	50.0000 kΩ	50.0005 kΩ	±1.7 Ω
100kR Range	100.0000 kΩ	100.0002 kΩ	±3.3 Ω
2 Wire Simulated Resistance			
2 Wire values are reported relative to calibrator 0 Ohm output			
10 R Range	1.0000 Ω	1.0000 Ω	±140 uΩ
10 R Range	10.0000 Ω	9.9999 Ω	±220 uΩ
33 R Range	10.1000 Ω	10.1000 Ω	±220 uΩ
33 R Range	33.0000 Ω	32.9996 Ω	±560 uΩ
100 R Range	33.1000 Ω	33.1001 Ω	±540 uΩ
100 R Range	100.0000 Ω	100.0003 Ω	±1.4 mΩ
330 R Range	100.0000 Ω	99.9958 Ω	±1.5 mΩ
330 R Range	330.0000 Ω	329.9924 Ω	±5.2 mΩ
1kR Range	0.33000 kΩ	0.33000 kΩ	±13 mΩ
1kR Range	1.00000 kΩ	1.00000 kΩ	±19 mΩ
3.3kR Range	1.00000 kΩ	0.99994 kΩ	±19 mΩ
3.3kR Range	3.30000 kΩ	3.29991 kΩ	±55 mΩ
10kR Range	3.3000 kΩ	3.2999 kΩ	±140 mΩ
10kR Range	10.0000 kΩ	10.0000 kΩ	±200 mΩ
33kR Range	10.0000 kΩ	9.9998 kΩ	±200 mΩ
33kR Range	33.0000 kΩ	32.9991 kΩ	±560 mΩ
100kR Range	33.0000 kΩ	32.9999 kΩ	±1.2 Ω
100kR Range	100.0000 kΩ	100.0001 kΩ	±3.3 Ω
330kR Range	100.000 kΩ	100.000 kΩ	±2 Ω
330kR Range	330.000 kΩ	329.997 kΩ	±6.8 Ω
1MR Range	0.33000 MΩ	0.33000 MΩ	±14 Ω
1MR Range	1.00000 MΩ	1.00001 MΩ	±21 Ω
3.3MR Range	1.00000 MΩ	1.00002 MΩ	±22 Ω
3.3MR Range	3.30000 MΩ	3.30005 MΩ	±250 Ω
10MR Range	3.3000 MΩ	3.3001 MΩ	±280 Ω
10MR Range	10.0000 MΩ	10.0004 MΩ	±460 Ω
33MR Range	10.0000 MΩ	9.9966 MΩ	±460 Ω
33MR Range	33.0000 MΩ	32.9971 MΩ	±21 kΩ
100MR Range	33.0000 MΩ	33.0065 MΩ	±21 kΩ
100MR Range	100.0000 MΩ	100.0220 MΩ	±33 kΩ
330MR Range	100.0000 MΩ	100.0140 MΩ	±220 kΩ
330MR Range	330.0000 MΩ	330.2753 MΩ	±2.1 MΩ
1GR Range	0.3300 GΩ	0.3308 GΩ	±2.2 MΩ
1GR Range	1.0000 GΩ	1.0019 GΩ	±3.5 MΩ
2 Wire (Compensated) Simulated Resistance			
Multimeter zero performed at terminals			
10 R Range	0.0000 Ω	0.0008 Ω	±3.5 mΩ
10 R Range	1.0000 Ω	1.0008 Ω	±3.5 mΩ
10 R Range	10.0000 Ω	10.0007 Ω	±3.5 mΩ
33 R Range	10.1000 Ω	10.1007 Ω	±3.5 mΩ
33 R Range	33.0000 Ω	33.0006 Ω	±3.5 mΩ
100 R Range	33.1000 Ω	33.1006 Ω	±3.5 mΩ
100 R Range	100.0000 Ω	100.0008 Ω	±3.8 mΩ
330 R Range	100.0000 Ω	100.0018 Ω	±3.8 mΩ
330 R Range	330.0000 Ω	329.9966 Ω	±6.2 mΩ

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AS LEFT RESULTS

Test Title	Applied Value	Reading	Uncertainty
1kR Range	0.33000 kΩ	0.33000 kΩ	±14 mΩ
1kR Range	1.00000 kΩ	1.00000 kΩ	±19 mΩ
3.3kR Range	1.00000 kΩ	0.99999 kΩ	±20 mΩ
3.3kR Range	3.30000 kΩ	3.29997 kΩ	±54 mΩ
10kR Range	3.30000 kΩ	3.29998 kΩ	±54 mΩ
10kR Range	10.00000 kΩ	10.00002 kΩ	±150 mΩ
33kR Range	10.0000 kΩ	9.9998 kΩ	±200 mΩ
33kR Range	33.0000 kΩ	32.9992 kΩ	±540 mΩ
100kR Range	33.0000 kΩ	32.9998 kΩ	±540 mΩ
100kR Range	100.0000 kΩ	100.0000 kΩ	±1.4 Ω

AS LEFT RESULTS

Test Title	Applied Value	Reading	Uncertainty
Capacitance @ 1kHz Measured Cp up to 1uF, Cs above			
1nF @ 1kHz	0.9866 nF	0.9867 nF	±700 fF
2nF @ 1kHz	1.9908 nF	1.9909 nF	±1.3 pF
5nF @ 1kHz	5.1305 nF	5.1311 nF	±3 pF
10nF @ 1kHz	10.138 nF	10.138 nF	±6 pF
100nF @ 1kHz	100.59 nF	100.59 nF	±51 pF
1uF @ 1kHz	0.9948 uF	0.9948 uF	±510 pF
10uF @ 1kHz	10.000 uF	10.000 uF	±6 nF
Variable Capacitance			
1nF Rng @ 1kHz	0.400 nF	0.4004 nF	±2 pF
1nF Rng @ 1kHz	0.500 nF	0.5002 nF	±2 pF
1nF Rng @ 1kHz	0.800 nF	0.8000 nF	±2 pF
1nF Rng @ 1kHz	0.900 nF	0.8998 nF	±2 pF
10nF Rng @ 1kHz	0.900 nF	0.902 nF	±2 pF
10nF Rng @ 1kHz	1.000 nF	1.001 nF	±5 pF
10nF Rng @ 1kHz	2.000 nF	1.994 nF	±5 pF
10nF Rng @ 1kHz	5.000 nF	5.005 nF	±5 pF
10nF Rng @ 1kHz	10.000 nF	10.004 nF	±10 pF
100nF Rng @ 1kHz	11.0000 nF	11.0072 nF	±12 pF
100nF Rng @1kHz	20.0000 nF	19.9869 nF	±40 pF
100nF Rng @ 1kHz	50.0000 nF	49.9716 nF	±50 pF
100nF Rng @ 1kHz	100.0000 nF	100.0195 nF	±100 pF
1uF Rng @ 100Hz	0.200000 uF	0.199971 uF	±800 pF
1uF Rng @ 100Hz	0.500000 uF	0.499949 uF	±2 nF
1uF Rng @ 100Hz #	0.950000 uF	0.950050 uF	±2 nF
10uF Rng @ 100Hz #	2.00000 uF	1.99963 uF	±15 nF
10uF Rng @ 100Hz #	5.00000 uF	4.99878 uF	±15 nF
10uF Rng @ 55Hz #	9.50000 uF	9.49911 uF	±15 nF
100uF Rng @ 10Hz #	10.0000 uF	9.9962 uF	±85 nF
100uF Rng @ 10Hz #	50.0000 uF	50.0205 uF	±85 nF
100uF Rng @ 10Hz #	95.0000 uF	95.0363 uF	±85 nF
1mF Rng @ 10Hz #	0.100000 mF	0.100020 mF	±85 nF
1mF Rng @ 10Hz #	0.500000 mF	0.500589 mF	±1.5 uF
1mF Rng @ 10Hz #	0.950000 mF	0.952311 mF	±3.3 uF
10mF Rng @ DC #	1.000 mF	0.998 mF	±3.5 uF
10mF Rng @ DC #	5.000 mF	4.993 mF	±10 uF
10mF Rng @ DC #	9.500 mF	9.491 mF	±36 uF
100mF Rng @ DC #	10.00 mF	9.95 mF	±36 uF
100mF Rng @ DC #	40.00 mF	39.88 mF	±360 uF
100mF Rng @ DC #	100.00 mF	100.12 mF	±900 uF

AS LEFT RESULTS

Test Title	Applied Value	Reading	Uncertainty
Thermocouple Cold Junction Measurement			
CJ Temperature	23.00 °C	23.00 °C	±0.1 °C
Thermocouple Source			
0mV	0.0000 mV	-0.0012 mV	±680 nV
50mV	50.0000 mV	50.0027 mV	±1.5 uV
100mV	100.0000 mV	99.9978 mV	±2.6 uV
-50mV	-50.0000 mV	-50.0042 mV	±1.5 uV
-100mV	-100.0000 mV	-100.0005 mV	±2.6 uV
Type K			
-200°C (-5.891mV)	-200.00 °C	-200.06 °C	±50 m°C
-140C (-4.669mV)	-140.00 C	-140.05 C	±50 m°C
-100°C (-3.554mV)	-100.00 °C	-100.04 °C	±50 m°C
0°C (0mV)	0.00 °C	0.00 °C	±50 m°C
100°C (4.096mV)	100.00 °C	100.00 °C	±50 m°C
200°C (8.138mV)	200.00 °C	200.01 °C	±50 m°C
500°C (20.644mV)	500.00 °C	500.04 °C	±50 m°C
1000°C (41.276mV)	1000.00 °C	1000.07 °C	±50 m°C
1370°C (54.819mV)	1370.00 °C	1370.06 °C	±50 m°C
Type J			
-210°C (-8.095mV)	-210.00 °C	-210.05 °C	±50 m°C
0°C (0.000mV)	0.00 °C	0.00 °C	±50 m°C
400°C (21.848mV)	400.00 °C	400.02 °C	±50 m°C
1200°C (69.553mV)	1200.00 °C	1200.04 °C	±50 m°C
Type T			
-250°C (-6.180mV)	-250.00 °C	-250.06 °C	±170 m°C
0°C (0.000mV)	0.00 °C	0.00 °C	±50 m°C
400°C (20.872mV)	400.00 °C	400.02 °C	±50 m°C
Type R			
0°C (0.000mV)	0.00 °C	-0.02 °C	±120 m°C
400°C (3.408mV)	400.00 °C	400.01 °C	±120 m°C
1760°C (21.003mV)	1760.00 °C	1760.15 °C	±120 m°C
Type S			
0°C (0.000mV)	0.00 °C	-0.02 °C	±120 m°C
400°C (3.259mV)	400.00 °C	400.01 °C	±120 m°C
1760°C (18.609mV)	1760.00 °C	1760.15 °C	±120 m°C
Type N			
-200°C (-3.990mV)	-200.00 °C	-200.07 °C	±80 m°C
-25°C (-0.646mV)	-25.00 °C	-25.04 °C	±80 m°C
120°C (3.374mV)	120.00 °C	120.00 °C	±80 m°C
1300°C (47.513mV)	1300.00 °C	1300.09 °C	±80 m°C
Type B			
1000°C (4.834mV)	1000.00 °C	1000.05 °C	±110 m°C
Type E			
350°C (24.964mV)	350.00 °C	350.02 °C	±40 m°C

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Test Title	Applied Value	Reading	Uncertainty
Type L			
-200°C (-8.158mV)	-200.00 °C	-200.27 °C	±50 m°C
0°C (0.000mV)	0.00 °C	-0.02 °C	±50 m°C
900°C (53.154mV)	900.00 °C	899.95 °C	±50 m°C
Type U			
-200°C (-5.696mV)	-200.00 °C	-199.91 °C	±50 m°C
0°C (0.000mV)	0.00 °C	-0.02 °C	±50 m°C
600°C (34.309mV)	600.00 °C	600.02 °C	±50 m°C
Type C			
0°C (0.000mV)	0.00 °C	-0.07 °C	±60 m°C
650°C (11.583mV)	650.00 °C	650.11 °C	±60 m°C
1000°C (18.257mV)	1000.00 °C	1000.11 °C	±60 m°C
2316°C (37.070mV)	2316.00 °C	2316.27 °C	±60 m°C

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Test Title	Applied Value	Reading	Uncertainty
Thermocouple Input			
0mV	0.000 mV	-0.000 mV	±2 uV
50mV	50.000 mV	49.999 mV	±5 uV
100mV	100.000 mV	100.000 mV	±5 uV
-50mV	-50.000 mV	-50.000 mV	±5 uV
100mV	-100.000 mV	-100.000 mV	±5 uV
Type K			
-190°C (-5.730mV)	-190.00 °C	-190.02 °C	±50 m°C
-140°C (-4.669mV)	-140.00 °C	-140.00 °C	±50 m°C
-100°C (-3.554mV)	-100.00 °C	-100.01 °C	±50 m°C
0°C (0.000mV)	0.00 °C	0.01 °C	±50 m°C
212°F (4.096mV)	212.00 °F	211.90 °F	±90 m°F
100°C (4.096mV)	100.00 °C	99.95 °C	±50 m°C
200°C (8.138mV)	200.00 °C	199.95 °C	±50 m°C
500°C (20.644mV)	500.00 °C	499.95 °C	±50 m°C
1370°C (54.819mV)	1370.00 °C	1370.04 °C	±50 m°C
Type J			
-200°C (-7.890mV)	-200.00 °C	-200.03 °C	±50 m°C
0°C (0.000mV)	0.00 °C	0.01 °C	±50 m°C
400°C (21.848mV)	400.00 °C	399.99 °C	±50 m°C
1200°C (69.553mV)	1200.00 °C	1199.95 °C	±50 m°C
Type T			
-240°C (-6.105mV)	-240.00 °C	-240.06 °C	±170 m°C
0°C (0.000mV)	0.00 °C	0.00 °C	±50 m°C
400°C (20.872mV)	400.00 °C	399.96 °C	±50 m°C
Type R			
0°C (0.000mV)	0.00 °C	0.01 °C	±120 m°C
400°C (3.408mV)	400.00 °C	400.03 °C	±120 m°C
1760°C (21.003mV)	1760.00 °C	1759.90 °C	±120 m°C
Type S			
0°C (0.000mV)	0.00 °C	-0.01 °C	±120 m°C
400°C (3.259mV)	400.00 °C	399.94 °C	±120 m°C
1760°C (18.609mV)	1760.00 °C	1759.90 °C	±120 m°C
Type N			
-190°C (-3.884mV)	-190.00 °C	-189.94 °C	±80 m°C
120°C (3.374mV)	120.00 °C	119.95 °C	±80 m°C
1300°C (47.513mV)	1300.00 °C	1299.94 °C	±80 m°C
TypeB			
1000°C (4.834mV)	1000.00 °C	999.91 °C	±110 m°C
Type E			
-240°C (-9.604mV)	-240.00 °C	-239.96 °C	±320 m°C
1000°C (76.373mV)	1000.00 °C	1000.01 °C	±110 m°C
Type L			
-200°C (-8.158mV)	-200.00 °C	-199.99 °C	±40 m°C
0°C (0.000mV)	0.00 °C	0.00 °C	±40 m°C

AS LEFT RESULTS

Test Title	Applied Value	Reading	Uncertainty
0°C (0.000mV)	0.00 °C	0.00 °C	±40 m°C
900°C (53.154mV)	900.00 °C	900.00 °C	±40 m°C
Type U			
-200°C (-5.696mV)	-200.00 °C	-199.99 °C	±50 m°C
0°C (0.000mV)	0.00 °C	0.01 °C	±50 m°C
600°C (34.309mV)	600.00 °C	599.98 °C	±50 m°C
Type C			
0°C (0mV)	0.00 °C	0.02 °C	±60 m°C
650°C (11.583mV)	650.00 °C	649.86 °C	±60 m°C
1000°C (18.257mV)	1000.00 °C	999.78 °C	±60 m°C
4 Wire PRT			
The PRT output is derived from the simulated resistance function, the below tests verify the maths conversion function.			
PRT Output	-100.000 °C	-99.990 °C	±0.02 °C
PRT Output	0.000 °C	0.006 °C	±0.02 °C
PRT Output	30.000 °C	29.992 °C	±0.02 °C
PRT Output	50.000 °C	49.989 °C	±0.02 °C
PRT Output	100.000 °C	99.987 °C	±0.02 °C
PRT Output	200.000 °C	199.980 °C	±0.02 °C
PRT Output	800.000 °C	800.009 °C	±0.02 °C
Adapter Interface			
0V	0.0000 V	0.0000 V	±100 uV
5V	5.0000 V	4.9999 V	±100 uV
10V	10.0000 V	10.0000 V	±100 uV
-5V	-5.0000 V	-5.0000 V	±100 uV
-10V	-10.0000 V	-10.0000 V	±100 uV
PWM Output			
Cycle @ 5V/1kHz #	10.00 %	9.98 %	±0.02 %
Cycle @ 5V/1kHz #	50.00 %	49.98 %	±0.02 %
Cycle @ 5V/1kHz #	90.00 %	89.96 %	±0.02 %
Cycle @ 5V/10Hz #	50.00 %	50.00 %	±0.02 %
Cycle @ 5V/10kHz #	50.00 %	49.78 %	±0.02 %
pk-pk Level@50%/1kHz	2.000 V	1.995 V	±0.01 V
pk-pk Level@50%/1kHz	5.000 V	4.987 V	±0.01 V
pk-pk Level@50%/1kHz	10.000 V	9.973 V	±0.01 V
DC Offset	0.00 V	0.00 V	±0.01 V
DC Offset	2.50 V	2.50 V	±0.01 V
DC Offset	5.00 V	5.00 V	±0.01 V

END OF TEST DATA