

CERTIFICATE OF CALIBRATION

Date Of Issue
23rd August 2013

Certificate Number
230813/N21



Certificate Issued By:



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Approved Signatory

Signature

J. Carswell

G. Hills

J. Hutchins

Customer Name: SIGNATROL LIMITED

Address: 1st & 2nd FLOOR OFFICES

105 CHURCH STREET

TEWKESBURY

GLOUCESTERSHIRE

GL20 5AB

Order Number: 44378

Ref Number: 370/36833

Date Received: 21st August 2013

Date Calibrated: 22nd August 2013

Ambient Temperature: 22 °C ± 2 °C

Ambient Humidity: <60 % rh

Temperature Scale: International Temperature Scale of 1990

Instrument Type : EUOTRON MICROCAL 1 SIMULATOR

Instrument Serial Number: 0049272

Procedure: The instrument was stabilised at ambient temperature, then calibrated by measuring its output on traceable reference equipment.

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.

Results indicate performance of instrument at time of measurement, with no warranty as to specification, repeatability or long term stability.

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UKAS Accredited Calibration Laboratory No 0601

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Instrument Serial No 0049272

Results

<u>Type "J" Output Temperature °C</u>	<u>Nominal mV</u>	<u>Measured mV</u>	<u>Equivalent Temperature °C</u>	<u>Uncertainty of Measurement</u>
-100.0	-4.633	-4.635 8	-100.1	± 0.25 °C
700.0	39.132	39.131 2	700.0	± 0.15 °C

<u>Type "K" Output Temperature °C</u>	<u>Nominal mV</u>	<u>Measured mV</u>	<u>Equivalent Temperature °C</u>	<u>Uncertainty of Measurement</u>
-100.0	-3.554	-3.556 1	-100.0	± 0.25 °C
900.0	37.326	37.325 3	900.0	± 0.15 °C

<u>Type "T" Output Temperature °C</u>	<u>Nominal mV</u>	<u>Measured mV</u>	<u>Equivalent Temperature °C</u>	<u>Uncertainty of Measurement</u>
-100.0	-3.379	-3.374 1	-99.9	± 0.25 °C
300.0	14.862	14.865 2	300.1	± 0.15 °C

<u>Type "S" Output Temperature °C</u>	<u>Nominal mV</u>	<u>Measured mV</u>	<u>Equivalent Temperature °C</u>	<u>Uncertainty of Measurement</u>
800.0	7.345	7.341 1	799.8	± 1 °C
1400.0	14.373	14.371 3	1399.9	± 1 °C

<u>Type "R" Output Temperature °C</u>	<u>Nominal mV</u>	<u>Measured mV</u>	<u>Equivalent Temperature °C</u>	<u>Uncertainty of Measurement</u>
800.0	7.950	7.947 4	799.8	± 1 °C
1400.0	16.040	16.034 7	1399.6	± 1 °C

<u>Type "E" Output Temperature °C</u>	<u>Nominal mV</u>	<u>Measured mV</u>	<u>Equivalent Temperature °C</u>	<u>Uncertainty of Measurement</u>
-100.0	-5.237	-5.237 9	-100.0	± 0.25 °C
650.0	49.116	49.108 1	649.8	± 0.15 °C

<u>PT100 Output Temperature °C</u>	<u>Nominal Ohms</u>	<u>Measured Ohms</u>	<u>Equivalent Temperature °C</u>	<u>Uncertainty of Measurement</u>
0.0	0.00	100.041 4	0.10	± 0.025 °C
600.0	313.71	313.647 7	599.81	± 0.18 °C

End of Report