

# CERTIFICATE OF CALIBRATION

Date Of Issue  
29th August 2014

Certificate Number  
290814/S3



Certificate Issued By:



Electronic Temperature Instruments Ltd  
Easting Close, Worthing  
West Sussex BN14 8HQ England  
Telephone +44 01903 202151  
Facsimile +44 01903 202445  
email: sales@etiltd.co.uk  
Website: www.etiltd.co.uk

Page 1 of 2 pages

Approved Signatory	Signature
R. Collins	
G. Hills	
J. Hutchins	

Customer Name: SIGNATROL LIMITED

Address: UNIT E2  
GREEN LANE BUSINESS PARK  
TEWKESBURY  
GLOUCESTERSHIRE  
GL20 8SJ

Order Number: 44679

Ref Number: 421/41911

Date Received: 26th August 2014

Date Calibrated: 28/29th August 2014

Ambient Temperature: 22 °C ± 2 °C

Ambient Humidity: <60 % rh

Temperature Scale: International Temperature Scale of 1990

Instrument Type: EUROTRON 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.

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.

# CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No 0601

Certificate Number  
290814/S3

Page 2 of 2 pages

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	- 4.633	- 4.637 0	- 100.1	± 0.25 °C
700.0	39.132	39.125 8	699.9	± 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	- 3.553 0	- 100.0	± 0.25 °C
900.0	37.326	37.328 5	900.1	± 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	- 3.377 3	- 99.9	± 0.25 °C
300.0	14.862	14.866 5	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 8	799.7	± 1 °C
1400.0	14.373	14.370 5	1399.8	± 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	7.946 5	799.7	± 1 °C
1400.0	16.040	16.034 3	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	- 5.239 8	- 100.1	± 0.25 °C
650.0	49.116	49.103 2	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	100.039 1	0.10	± 0.025 °C
600.0	313.71	313.639	599.81	± 0.18 °C

End of Report