

# CERTIFICATE OF CALIBRATION

Date Of Issue  
12th December 2018

Certificate Number  
121218/S2



0601

Certificate Issued By:



Electronic Temperature Instruments Ltd  
Easting Close, Worthing  
West Sussex BN14 8HQ, UK  
tel: 01903 202151  
email: sales@etiltd.co.uk  
www.etiltd.com

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Approved Signatory	Signature
S. Wells	

Customer Name: SIGNATROL LIMITED

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

Order Number: 45679

Ref Number: 692/69019

Date Received: 27th November 2018

Date Calibrated: 11th-12th December 2018

Ambient Temperature: 22 °C ± 2 °C

Ambient Humidity: <60 % rh

Temperature Scale: International Temperature Scale of 1990

Instrument Type : EUROTRON MICROCAL 1+ T/C SIMULATOR

Instrument Serial Number: 0049272

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

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*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.*

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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	- 4.632 5	- 4.634 3	-100.03	± 0.48 °C
700.0	39.131 8	39.141 0	700.14	± 0.20 °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	- 3.553 6	- 3.557 3	-100.11	± 0.69 °C
900.0	37.325 9	37.327 8	900.06	± 0.31 °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	- 3.378 6	- 3.382 8	-100.14	± 0.67 °C
300.0	14.861 9	14.852 6	299.84	± 0.29 °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 0	7.345 9	800.08	± 1.6 °C
1400.0	14.372 6	14.369 3	1399.73	± 1.6 °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	7.949 8	7.947 9	799.84	± 1.6 °C
1400.0	16.040 1	16.036 1	1399.71	± 1.6 °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 2	- 5.250 4	-100.29	± 0.69 °C
650.0	49.115 7	49.106 1	649.89	± 0.31 °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	100.00	100.037 5	0.10	± 0.05 °C
600.0	313.71	313.754 5	600.15	± 0.18 °C

End of Report