

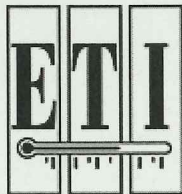
CERTIFICATE OF CALIBRATION

Date Of Issue
16th November 2017

Certificate Number
161117/S1



Certificate Issued By:



Electronic Temperature Instruments Ltd
Easting Close, Worthing
West Sussex BN14 8HQ, UK
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Approved Signatory	Signature
J.S. Carswell	

Customer Name: SIGNATROL LIMITED

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

Order Number: 45464

Ref Number: 617/61569

Date Received: 13th November 2017

Date Calibrated: 15/16th November 2017

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.

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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UKAS Accredited Calibration Laboratory No 0601

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Instrument Serial No 0049272

Results

<u>Type "J" Output</u> <u>Temperature °C</u>	<u>Nominal mV</u>	<u>Measured mV</u>	<u>Equivalent</u> <u>Temperature °C</u>	<u>Uncertainty</u> <u>of Measurement</u>
- 100.0	- 4.633	- 4.627 2	- 99.9	± 0.25 °C
700.0	39.132	39.136 2	700.1	± 0.19 °C
<u>Type "K" Output</u> <u>Temperature °C</u>	<u>Nominal mV</u>	<u>Measured mV</u>	<u>Equivalent</u> <u>Temperature °C</u>	
- 100.0	- 3.554	- 3.551 8	- 99.9	± 0.25 °C
900.0	37.326	37.332 8	900.2	± 0.19 °C
<u>Type "T" Output</u> <u>Temperature °C</u>	<u>Nominal mV</u>	<u>Measured mV</u>	<u>Equivalent</u> <u>Temperature °C</u>	
- 100.0	- 3.379	- 3.376 5	- 99.9	± 0.25 °C
300.0	14.862	14.860 9	300.0	± 0.19 °C
<u>Type "S" Output</u> <u>Temperature °C</u>	<u>Nominal mV</u>	<u>Measured mV</u>	<u>Equivalent</u> <u>Temperature °C</u>	
800.0	7.345	7.343 3	799.9	± 1 °C
1400.0	14.373	14.365 4	1399.4	± 1 °C
<u>Type "R" Output</u> <u>Temperature °C</u>	<u>Nominal mV</u>	<u>Measured mV</u>	<u>Equivalent</u> <u>Temperature °C</u>	
800.0	7.950	7.946 8	799.8	± 1 °C
1400.0	16.040	16.032 6	1399.5	± 1 °C
<u>Type "E" Output</u> <u>Temperature °C</u>	<u>Nominal mV</u>	<u>Measured mV</u>	<u>Equivalent</u> <u>Temperature °C</u>	
- 100.0	- 5.237	- 5.234 4	- 99.9	± 0.25 °C
650.0	49.116	49.124 5	650.1	± 0.19 °C
<u>PT100 Output</u> <u>Temperature °C</u>	<u>Nominal Ohms</u>	<u>Measured Ohms</u>	<u>Equivalent</u> <u>Temperature °C</u>	
0.0	0.00	100.040 9	0.11	± 0.025 °C
600.0	313.71	313.643	599.79	± 0.18 °C

End of Report