CALIBRATION

Date Of Issue 28th September 2010

Certificate Number 280910/N15



0601

Certificate Issued By:



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Approved Signatory	Signature
J. Carswell	Benswell
J. McKernan	
D. Carter	

Customer Name: SIGNATROL LIMITED

Address: 1st & 2nd FLOOR OFFICES

105 CHURCH STREET

TEWKESBURY

GLOUCESTERSHIRE

GL20 5AB

Order Number: 43564

Ref Number: 257/25536

Date Received: 21st September 2010

Date Calibrated: 23/24th September 2010

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 measurements to recognised national standards, and to units of measurement realised at the National Physical Laboratory or other recognised national standards laboratories. 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

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Instrument Serial No 49272

Results

Type "J"Output Temperature °C -100.0 700.0	Nominal mV -4.633 39.132	Measured mV -4.638 8 39.127 1	Equivalent Temperature °C -100.1 899.9	Uncertainty of Measurement ± 0.25 °C ± 0.15 °C
Type "K"Output Temperature °C -100.0 900.0	Nominal mV -3.554 37.326	Measured mV -3.556 8 37.326 5	Equivalent Temperature °C -100.1 900.0	± 0.25 °C ± 0.15 °C
Type "T"Output Temperature °C -100.0 300.0	Nominal mV -3.379 14.862	Measured mV -3.371 6 14.860 8	Equivalent Temperature °C -99.8 300.0	± 0.25 °C ± 0.15 °C
Type "S"Output Temperature °C 800.0 1400.0	Nominal mV 7.345 14.373	Measured mV 7.342 6 14.371 2	Equivalent Temperature °C 799.8 1399.9	± 1 °C ± 1 °C
Type "R"Output Temperature °C 800.0 1400.0	Nominal mV 7.950 16.040	Measured mV 7.958 1 16.035 5	Equivalent Temperature °C 799.8 1399.7	± 1 °C ± 1 °C
Type "E"Output Temperature °C -100.0 650.0	Nominal mV -5.237 49.116	Measured mV -5.246 2 49.113 3	Equivalent Temperature °C -100.1 650.0	± 0.25 °C ± 0.15 °C
PT100 Output Temperature °C 0.0 600.0	Nominal Ohms 0.00 313.71	Measured Ohms 100.041 1 313.661 2	Equivalent Temperature °C 0.11 599.85	± 0.025 °C ± 0.18 °C

End of Report



CERTIFICATE OF CALIBRATION

ELECTRONIC TEMPERATURE INSTRUMENTS LTD

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Customer: SIGNATROL LTD

1st & 2nd FLOOR OFFICES 105 CHURCH STREET

TEWKESBURY

GLOUCESTERSHIRE

GL20 5AB

CALIBRATION REPORT No: 280910/15 Model: EUROTRON MICROCAL 1

Standard: PREMA 6001

Date: 28th September 2010 Ambient Temperature: 22 °C ± 2 °C Serial No: 0049272 Certificate No: CN120565 Calibrated by: J. Carswell Ambient Humidity: < 60 %rh

Range	Test Value mV	Actual	Error	Test Limits mV
100mV	10.0	9.999	-0.001	0.006
100mV	50.0	50.008	0.008	0.006
1000mV	100.0	99.978	-0.022	0.006
1000mV	500.0	500.031	0.031	0.006
Range	Test Value mA	Actual	Error	Test Limits mA
20mA	4.0	3.9996	-0.0004	0.005
20mA	10.0	9.9985	-0.0015	0.005
20mA	20.0	19.9961	-0.0039	0.005

This is to certify that the above instrument has been calibrated against laboratory standards, which are traceable via International Agreement, to all major National Standards, including the NPL and NIST.

Certified by: