CERTIFICATE OF CALIBRATION

ISSUED BY AVON-DYNAMIC CALIBRATION

Date of Issue 03 February 2022

Certificate Number K644078

Date of Receipt: Specification:

Calibrated by:





SIGNATROL LTD UNIT E2 GREEN LANE BUSINESS PARK **TEWKESBURY GL20 8SJ**

Approved Signatory Mr B. Greenham

31 January 2022

As Found

HMAGGS

Next Calibration Due: 03 February 2023

CALIBRATE MEASURE INNOVATE

<u>Manufacturer:</u> Model Number: **EUROTRON**

MICROCAL 1+

Inventory Number:

CE1052

Serial Number:

49272

Description:

Report:

THERMOCOUPLE SIMULATOR

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This instrument has been calibrated to the stated specification, unless otherwise stated. The recorded measurements were correct when taken within the conditions stated. The calibration

was carried out using standards which are subject to regular periodic verification and are

traceable to National Standards.

Laboratory Conditions

Temperature:

20.0 ± 3°C

Humidity:

50%rh ± 20%rh

Comment:-

Calibrations marked ## (Not UKAS Accredited) in this Certificate have been included for

completeness.

Calibration Code U

The specification of the instrument is unknown or unit does not completely meet its.

specification. Results are reported as found.

Compliance Statement:

Conformity / Non-Conformity statements are based on simple acceptance rule (ILAC-G8:09/2019)

where, Acceptance Limit (AL) equals Tolerance Limit (TL). Provided that the Tolerance

Uncertainty Ratio (TUR) ≥ 1:1.

Date of Calibration:

03 February 2022

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k = 2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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 0199

REPORT

The unit under test was allowed to stabilise for 24 hours in the laboratory environment prior to testing. Results: As received. No adjustments were necessary.

~~,					- J.
TC	Sim	ulate	Type	K Fu	nction

TC Simulate Type K F	<u>Function</u>		
Range	Set Value	Actual Temperature	Uncertainty of Measurement
1372 °C	-100.0 °C 900.0 °C	-100.08 °C 899.99 °C	± 0.35 °C ± 0.29 °C
TC Simulate Type J F	unction		
Range	Set Value	<u>Actual Temperature</u>	<u>Uncertainty of Measurement</u>
750 °C	-100.0 °C 700.0 °C	-100.17 °C 699.93 °C	± 0.24 °C ± 0.24 °C
TC Simulate Type T F	unction		
Range	Set Value	Actual Temperature	Uncertainty of Measurement
400 °C	-100.0 °C 300.0 °C	-100.19 °C 299.80 °C	± 0.34 °C ± 0.24 °C
TC Simulate Type R I	Function		
Range	Set Value	Actual Temperature	<u>Uncertainty of Measurement</u>
1767 °C	800.0 °C 1400.0 °C	799.94 °C 1399.60 °C	± 0.55 °C ± 0.60 °C
TC Simulate Type E I	Function _		
Range	Set Value	Actual Temperature	<u>Uncertainty of Measurement</u>
1000 °C	-100.0 °C 650.0 °C	-100.13 °C 649.85 °C	± 0.60 °C ± 0.24 °C
TC Simulate Type S	Function		
Range	Set Value	Actual Temperature	<u>Uncertainty of Measurement</u>
1300 °C	800.0 °C 1400.0 °C	799.92 °C 1399.59 °C	± 0.57 °C ± 0.65 °C
PT 100 RTD Simulate	e Function		
Range	Set Value	Actual Temperature	Uncertainty of Measurement
850 °C	0.0 °C	0.10 °C	± 0.57 °C

Standard Used ADC3034, ADC2990

Laboratory Ambient Temperature:

Laboratory Ambient Temperature Laboratory Humidity:

20.0°C ± 3°C 50% ± 20% rh

Procedure Reference :

CLI090.

600.0 °C

-End of Report-

599.79 °C

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $\kappa = 2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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± 0.65 °C

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