CERTIFICATE OF CALIBRATION

ISSUED BY AVON-DYNAMIC CALIBRATION

Date of Issue 23 February 2023

Certificate Number K742600





Approved Signatory Mr. M. Hyde

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

CALIBRATE MEASURE INNOVATE

Manufacturer: EUROTRON Date of Receipt: 21 February 2023

Model Number: MICROCAL 1 + Specification: As Found

Inventory Number: CE1052 Calibrated by: MLAMSDALE

Serial Number: 49272 Next Calibration Due: 23 February 2024

<u>Description:</u> THERMOCOUPLE SIMULATOR

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Report: 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.

<u>Laboratory Conditions</u> Temperature: 20.0 ± 3°C

Humidity: 50%rh $\pm 20\%$ rh

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

completeness.

<u>Calibration Code U</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: 23 February 2023

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.

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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.

TC	Simulate	Type	ΚF	unction

<u>Uncertainty of Measurement</u>	<u>Actual Temperature</u>	<u>Set Value</u>	<u>Range</u>
± 0.35 °C	-99.87 °C	-100.0 °C	1372 °C
± 0.29 °C	900.22 °C	900.0 °C	

TC Simulate Type J Function

Uncertainty of Measurement	Actual Temperature	<u>Set Value</u>	<u>Range</u>
± 0.24 °C	-99.99 °C	-100.0 °C	750 °C
± 0.24 °C	700.10 °C	700.0 °C	

TC Simulate Type T Function

<u>Uncertainty of Measuremen</u>	Actual Temperature	Set Value	<u>Range</u>
± 0.34 °(-100.19 °C	-100.0 °C	400 °C
± 0.24 °(299.83 °C	300.0 °C	

TC Simulate Type R Function

<u>Uncertainty of Measurement</u>	<u>Actual Temperature</u>	Set Value	<u>Range</u>
± 0.55 °C	800.01 °C	800.0 °C	1767 °C
± 0.60 °C	1399.61 °C	1400.0 °C	

TC Simulate Type E Function

<u>Uncertainty of Measurement</u>	Actual Temperature	<u>Set Value</u>	<u>Range</u>
± 0.60 °C	-100.21 °C	-100.0 °C	1000 °C
± 0.24 °C	649.91 °C	650.0 °C	

TC Simulate Type S Function

<u>Uncertainty of Measurement</u>	Actual Temperature	<u>Set Value</u>	<u>Range</u>
± 0.57 °C	800.11 °C	800.0 °C	1300 °C
± 0.65 °C	1399.59 °C	1400.0 °C	

PT 100 RTD Simulate Function

<u>Uncertainty of Measurement</u>	Actual Temperature	Set Value	<u>Range</u>
± 0.57 °C	-0.12 °C	0.0 °C	850 °C
± 0.65 °C	599.45 °C	600.0 °C	

Standard Used ADC3034, ADC2830, ADC2473

Laboratory Ambient Temperature: $20.0^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Laboratory Humidity: $50\% \pm 20\%$ rh

Procedure Reference: CLI090.

-End of Report-

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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