

CERTIFICATE OF CALIBRATION

ISSUED BY AVON-DYNAMIC CALIBRATION



Date of Issue 11 February 2021

Certificate Number K563755



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CALIBRATE MEASURE INNOVATE

For Signatrol Ltd
Unit E2
Green Lane Business Park
Tewkesbury
GL20 8SJ

Approved Signatory:
M.Hyde

| | | | |
|----------------------------------|------------------------|------------------------------|------------------|
| <u>Customer Ref Number</u> : | CE1052 | <u>Date of Calibration</u> : | 11 February 2021 |
| <u>Date of Receipt</u> : | 08 February 2021 | <u>Item Type</u> : | Microcal 1 + |
| <u>Item Serial Number</u> : | 0049272 | | |
| <u>Instrument Manufacturer</u> : | Eurotron | | |
| <u>Description</u> : | Thermocouple Simulator | | |
| <u>Specification Reference</u> : | As Found | | |
| <u>Procedure Reference</u> : | CLI090. | | |

Note

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

Calibrated By : T.Neale

Calibration Code: U - The specification of the instrument is unknown, or unit does not completely meet its specification. Results are reported as found

Choose an item.

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.

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.

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UKAS ACCREDITED CALIBRATION LABORATORY No 0199

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REPORT

The unit was allowed to stabilise for 24 hours prior to testing. Results: As received. No adjustments were necessary.

TC Simulate Type K Function

| <u>Range</u> | <u>Set Value</u> | <u>Actual Temperature</u> | <u>Uncertainty of Measurement</u> |
|--------------|------------------|---------------------------|-----------------------------------|
| 1372 °C | -100.0 °C | -99.99 °C | ± 0.35 °C |
| | 900.0 °C | 900.09 °C | ± 0.29 °C |

TC Simulate Type J Function

| <u>Range</u> | <u>Set Value</u> | <u>Actual Temperature</u> | <u>Uncertainty of Measurement</u> |
|--------------|------------------|---------------------------|-----------------------------------|
| 750 °C | -100.0 °C | -100.14 °C | ± 0.24 °C |
| | 700.0 °C | 699.97 °C | ± 0.24 °C |

TC Simulate Type T Function

| <u>Range</u> | <u>Set Value</u> | <u>Actual Temperature</u> | <u>Uncertainty of Measurement</u> |
|--------------|------------------|---------------------------|-----------------------------------|
| 400 °C | -100.0 °C | -100.18 °C | ± 0.34 °C |
| | 300.0 °C | 299.84 °C | ± 0.24 °C |

TC Simulate Type R Function

| <u>Range</u> | <u>Set Value</u> | <u>Actual Temperature</u> | <u>Uncertainty of Measurement</u> |
|--------------|------------------|---------------------------|-----------------------------------|
| 1767 °C | 800.0 °C | 799.91 °C | ± 0.55 °C |
| | 1400.0 °C | 1399.86 °C | ± 0.60 °C |

TC Simulate Type E Function

| <u>Range</u> | <u>Set Value</u> | <u>Actual Temperature</u> | <u>Uncertainty of Measurement</u> |
|--------------|------------------|---------------------------|-----------------------------------|
| 1000 °C | -100.0 °C | -100.21 °C | ± 0.60 °C |
| | 650.0 °C | 649.23 °C | ± 0.24 °C |

TC Simulate Type S Function

| <u>Range</u> | <u>Set Value</u> | <u>Actual Temperature</u> | <u>Uncertainty of Measurement</u> |
|--------------|------------------|---------------------------|-----------------------------------|
| 1300 °C | 800.0 °C | 799.91 °C | ± 0.57 °C |
| | 1400.0 °C | 1399.93 °C | ± 0.65 °C |

PT 100 RTD Simulate Function

| <u>Range</u> | <u>Set Value</u> | <u>Actual Temperature</u> | <u>Uncertainty of Measurement</u> |
|--------------|------------------|---------------------------|-----------------------------------|
| 850 °C | 0.0 °C | 0.10 °C | ± 0.57 °C |
| | 600.0 °C | 599.79 °C | ± 0.65 °C |

Standards Used

ADC2519
ADC3034

Laboratory Ambient Temperature = 20.3°C ± 3°C

Laboratory Humidity = 50% ± 20%rh

-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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