

CERTIFICATE OF CALIBRATION

ISSUED BY **CCPI EUROPE LABORATORY**

Date of Issue 11th August 2021

Certificate Number 26500



0600



Temperature Technology Centre
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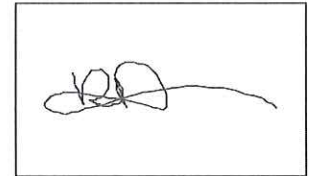
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Approved Signatory

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Deputy Head of Laboratory

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Customer SN Cerap
22 Rue Des Forges
36100 Les Bordes
France

Calibration Date 10th August 2021

Order ref: H210549

Our ref: 198587 (24292)

Equipment Tested 1 Simplex Platinum Resistance Thermometer.

Description 100Ω at 0 °C Platinum Resistance Thermometer, 4 wire construction, 500mm long below pot x 6mm diameter with 1.5m long extension cable. Serial number 198587/1.

Measurements The above Platinum Resistance Thermometer was submitted for a temperature calibration at -30 °C, 0 °C, 135 °C, 270 °C & 405 °C.

Procedure The temperature scale used was I.T.S.90.
The measuring test current used during tests was 1mA
The test resistance thermometer was allowed to equilibrate within a controlled stable thermal environment, the temperature of which was measured using traceable reference Platinum Resistance thermometers.
The following table shows the measured test thermometer resistance, the calculated temperature in °C using IEC 60751:2008 values and the correction value at the test temperatures in °C

Uncertainty of measurement = ± 0.045 °C at -30 °C to 405 °C



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.

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. **0600**

Certificate

Number

26500

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Results

PRT Serial Number	Measured Reference Temperature °C	Test PRT Measured Resistance Ω	Test PRT Calculated Temperature with reference to IEC 60751:2008 °C	Correction for PRT with reference to IEC 60751:2008 °C
198587/1	-29.918	88.204	-30.046	0.128
	0.002	99.957	-0.110	0.111
	134.937	151.628	134.782	0.154
	270.216	201.299	269.959	0.257
	405.239	248.791	404.934	0.306

Standard Equipment:

Traceable Platinum Resistance Thermometers serial numbers 0426/0430/275040/95280, UKAS certificate by UKAS laboratory number 0600 & 0478, certificate number 26392/26393/2021020250/1/PM02/2021020250/2/PM02, calibration due January 2022/January 2022/February 2022/February 2022.

Notes

The ambient temperature was 20 °C (± 2 °C), the relative humidity was 42 %rh ± 10 %rh.

Immersion depth during calibrations was 250mm & 300mm.

The technician that performed the calibration was D. Holmes.

The results shown are for the initial calibration of the unit under test.

- END -

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