CERTIFICATE OF CALIBRATION

ISSUED BY The Roxspur Measurement & Control Calibration Laboratory



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Assessed Signatory

WARREN SMITH

Date of Issue: 26 October 2015

Certificate Number

81321

Customer: SIGNATROL LIMITED

UNIT E2

GREEN LANE BUSINESS PARK

GLOUCESTERSHIRE

GL20 8SJ

Date Received

RM&C Order Ref.

Customer Order No.

Calibration Date

16 October 2015

L503072

44972

26 October 2015

Equipment Information

Description

GALLENKAMP AUTOTHERM DIGITAL INDICATOR WITH PROBE

Manufacturer

GALLENKAMP

Serial Number

CE09/JN/10104-1

Model Number

AUTOTHERM

Customer Inventory No.

CE1056

Calibrated Range

-50 °C to 200 °C

RM&C I.D. No.

Scale / Resolution

0.01 °C

Calibration Points

See Notes

RMC0023067

Conditions

Lab Temperature

21.0 °C ±2 °C

Department

TEMP - BATH AREA

Probe Type

Pt100

Engineer

SHAUN BOLDY

Probe Length

330 mm

Last Certificate Number

60439

Probe Diameter

6 mm

Min. Immersion Depth 200 mm

RM&C 023 DTI & RTD Procedure:

The thermometer under test was allowed to equilibrate within a controlled, stable environment, the temperature of which was measured using traceable reference Platinum Resistance Thermometers. The following results indicate the measured test thermometer temperature against the measured temperature at the time of calibration. The measurement uncertainty was calculated in accordance with M3003 (Edition 3 - November 2012) and as such takes into account such factors as the calibration & drift of the reference standards, stability, repeatability and resolution of reference instruments and that of the unit under test.

The results are valid at the time of calibration only. The temperature scale used was ITS-90. All measurements are traceable to National Standards. Calibration has been carried out using Laboratory procedures (LAB-PROC-023) in accordance with BS EN ISO 17025. The results are valid at the time of calibration only and are "As Found" (i.e. No Adjustments Made).

Notes:

Probe Serial No: 004606 was calibrated in channel A at -50 °C, -20 °C, 0 °C, 4 °C, 25 °C, 50 °C, 120 °C & 250 °C 0.06 °C requirement

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

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UKAS Accredited Calibration Laboratory No. 0043

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Calibration Results

Serial No: CE09/JN/10104-1 & 004606 in Ch A

Reference Temperature °C	Thermometer Reading °C	Measured Error °C	Measurement Uncertainty ±°C
-0.003	0.039	0.04	0.06
-49.972	-49.936	0.04	0.06
-20.037	-20.013	0.02	0.06
-0.007	0.025	0.03	0.06
4.030	4.062	0.03	0.06
25.029	25.071	0.04	0.06
50.045	50.084	0.04	0.06
120.063	120.103	0.04	0.06
249.919	249.967	0.05	0.06
-0.009	0.034	0.04	0.06

- End of Certificate -

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