CERTIFICATE OF CALIBRATION

ISSUED BY The Roxspur Measurement & Control Calibration Laboratory

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0043

Assessed Signatory

SHAUN BOLDY

Date of Issue: 16 October 2019 **Certificate Number** 167177

Customer: SIGNATROL LIMITED
UNIT E2
GREEN LANE BUSINESS PARK
GLOUCESTERSHIRE
GL20 8SJ

Date Received	10 October 2019
RM&C Order Ref.	L509494
Customer Order No.	45888
Calibration Date	16 October 2019
Next Calibration Due	15 October 2020

Equipment Information

Description	GALLENKAMP AUTOTHERM DIGITAL INDICATOR WITH PROBE		
Manufacturer	GALLENKAMP	Serial Number	CE09/JN/10104-1 & 004606
Model Number	AUTOTHERM	Customer Inventory No.	CE1056
Calibrated Range	-50 °C to 190 °C	RM&C I.D. No.	RMC0023067
Scale / Resolution	0.001 °C		
Calibration Points	-50 °C, 0 °C, 30 °C, 130 °C & 190 °C		

Conditions

Lab Temperature	21.0 °C ± 2 °C	Department	TEMP - BATH
Probe Type	Pt100	Engineer	SHAUN BOLDY
Probe Length	330 mm	Last Certificate Number	143914
Probe Diameter	6 mm		
Min. Immersion Depth	200 mm		

Procedure : RM&C 023 DTI & RTD

RM&C 023: Digital Thermometer & RTD Probe – Issue 4 (Dec-2018)
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.

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UKAS Accredited Calibration Laboratory No. 0043

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Calibration Results

CE09/JN/10104-1 & 004606 in Ch A

Reference Temperature °C	Thermometer Reading °C	Measured Error °C	Measurement Uncertainty ± °C
0.000	0.054	0.054	0.06
-50.066	-50.020	0.046	0.06
0.000	0.049	0.049	0.06
30.051	30.110	0.059	0.06
130.016	130.090	0.074	0.06
190.039	190.094	0.055	0.06
-0.003	0.057	0.060	0.06

- The certificate of calibration only applies to the instrument(s) listed on page one of the certificate -

- End of Certificate -

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.