CERTIFICATE OF CALIBRATION

Issued by

Roxspur Measurement & Control Limited

UKAS CALIBRATION

0043

2 Downgate Drive
Sheffield
South Yorkshire
S4 8BT

t: 0114 224 9205
f: 0114 224 9224

e:Sales@TTElectronics.com
i: www.TTElectronics.com

Authorised Signatory

RICHARD STEPHENSON

Date of Issue: **13 July 2023** **Certificate Number 232471IS2**

Customer: SIGNATROL LIMITED
UNIT E2
GREEN LANE BUSINESS PARK
GLOUCESTERSHIRE

GL20 8SJ

Date Received	28 June 2023
RM&C Order Ref.	6183
Customer Order No.	46916
Calibration Date	06 July 2023
Next Calibration Due	06 July 2024

Equipment Information

Description	LEYRO LDT-2000 PRECISION THERMOMETER & PT100 PROBE		
Manufacturer	LEYRO	Serial Number	1031401205 & 351839/1
Model Number	LDT-2000 & 935-14-116	Customer Inventory No.	CE1113 & CE1115
Calibrated Range	-70 °C to 300 °C	RM&C I.D. No.	RMC0044158
Scale / Resolution	0.001 °C		
Calibration Points	-70 °C, 0 °C, 30 °C, 150 °C & 300 °C		

Conditions

Lab Temperature	21.0 °C ± 2 °C	Department	TEMP - BATH
Probe Type	Pt100	Engineer	MARIA TOTH
Probe Length	350 mm	Last Certificate Number	232471
Probe Diameter	6 mm		
Min. Immersion Depth	200 mm		

Procedure : **RM&C 023 DTI & RTD**

RM&C 023: Digital Thermometer & RTD Probe – Issue 8 (Mar-2023)

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 5 – September 2022) and as such considers 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 Calibration has been carried out using Laboratory procedures (LAB-PROC-023) in accordance with BS EN ISO 17025:2017. The results are valid at the time of calibration only and are "As Found" (i.e. No Adjustments Made).

Notes :

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Calibration Results

Serial no.: 1031401205 & 351839/1

Reference Temperature °C	Thermometer Reading °C	Measured Error °C	Measurement Uncertainty °C
-0.011	-0.001	0.01	0.06
-70.311	-70.319	-0.01	0.06
-0.010	-0.020	-0.01	0.06
30.047	30.065	0.02	0.06
150.421	150.451	0.03	0.06
300.002	299.997	-0.01	0.06
-0.011	-0.001	0.01	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.