CERTIFICATE OF CALIBRATION

Issued by

Roxspur Measurement & Control Limited

UKAS CALIBRATION

0043

TT Electronics

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

MARK DONNELLY

Date of Issue: 31 August 2023 **Certificate Number 234986IS2**

Customer: SIGNATROL LIMITED
UNIT E2
GREEN LANE BUSINESS PARK
GLOUCESTERSHIRE

GL20 8SJ

Date Received	29 August 2023
RM&C Order Ref.	7055
Customer Order No.	46987
Calibration Date	31 August 2023

Equipment Information

Description	LEYRO LDT-2000 PRECISION THERMOMETER & PT100 PROBE		
Manufacturer	LEYRO	Serial Number	1031400221 & 401708/3
Model Number	LDT-2000 & 935-14-116	Customer Inventory No.	CE1219 & CE1215
Calibrated Range	70 °C to 300 °C	RM&C I.D. No.	RMC0052858
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	234986
Probe Diameter	6 mm		
Min. Immersion Depth	300 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 :

Decision Rule:
Agreed and reported specification: ±0.04 °C,
Agreed and reported Decision Rule: measured results are within the stated tolerances and the expanded measurement uncertainty (95 % coverage probability) is estimated to be 0.06 °C
This certificate supersedes certificate #234986.

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Calibration Results

Serial no.: 1031400221 & 401708/3

Reference Temperature °C	Thermometer Reading °C	Measured Error °C	Measurement Uncertainty °C
-0.007	0.002	0.009	0.060
-70.095	-70.069	0.026	0.060
-0.007	-0.013	-0.006	0.060
30.042	30.051	0.009	0.060
150.098	150.118	0.020	0.060
299.835	299.860	0.025	0.060
-0.007	0.001	0.008	0.060

- 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.