

# CERTIFICATE OF CALIBRATION

Issued by  
Roxspur Measurement & Control Limited

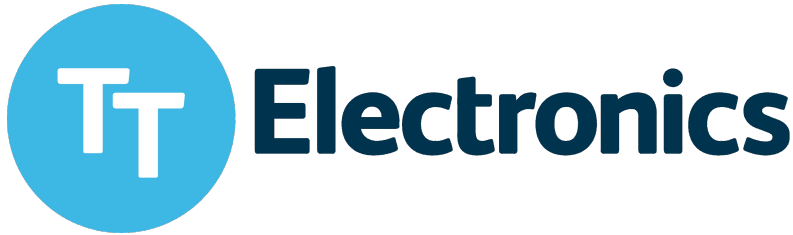


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Page 1 of 2

Authorised Signatory

RICHARD STEPHENSON



2 Downgate Drive  
Sheffield  
South Yorkshire  
S4 8BT

t: 0114 224 9205  
f: 0114 224 9224

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

**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	Serial Number	1031401205 & 351839/1
Manufacturer	LEYRO	Customer Inventory No.	CE1113 & CE1115
Model Number	LDT-2000 & 935-14-116	RM&C I.D. No.	RMC0044158
Calibrated Range	-70 °C to 300 °C		
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 :

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. 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. The certificate may not be reproduced other than in full, except with the prior written approval of the issuing Laboratory.

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Page 2 of 2

## 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 -