

# CERTIFICATE OF CALIBRATION

Issued by  
Roxspur Measurement & Control Limited



0043

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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:** 10 August 2023

**Certificate Number** 234351

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

Date Received 20 July 2023  
RM&C Order Ref. 6488  
Customer Order No. 46970  
Calibration Date 10 August 2023

## Equipment Information

|                    |  |                        |                       |
|--------------------|--|------------------------|-----------------------|
| Description        | LEYRO LDT-2000 PRECISION THERMOMETER & PT100 PROBE | Serial Number          | 1031400219 & 401708/2 |
| Manufacturer       | LEYRO  | Customer Inventory No. | CE1218 & CE1214       |
| Model Number       | LDT-2000 & 935-14-116                              | RM&C I.D. No.          | RMC0052859            |
| 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 | 217733      |
| 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 :

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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## Calibration Results

Serial no.: 1031400219 & 401708/2

| Reference Temperature<br>°C | Thermometer Reading<br>°C | Measured Error<br>°C | Measurement Uncertainty<br>°C |
|-----------------------------|---------------------------|----------------------|-------------------------------|
| -0.008                      | 0.001                     | 0.009                | 0.06                          |
| -70.169                     | -70.167                   | 0.002                | 0.06                          |
| -0.008                      | -0.015                    | -0.007               | 0.06                          |
| 30.038                      | 30.058                    | 0.020                | 0.06                          |
| 150.112                     | 150.132                   | 0.020                | 0.06                          |
| 299.879                     | 299.894                   | 0.015                | 0.06                          |
| -0.009                      | 0.002                     | 0.011                | 0.06                          |

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

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