

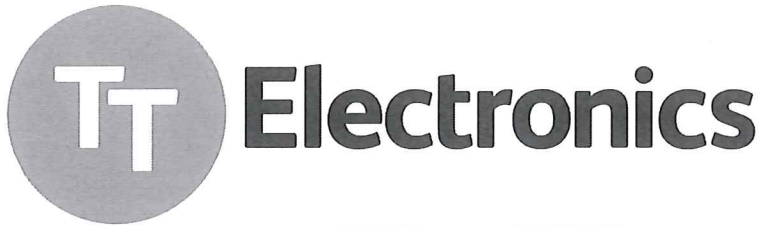
# CERTIFICATE OF CALIBRATION

Issued by  
Roxspur Measurement & Control Limited



0043

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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

Date of Issue: 10 June 2020

Certificate Number 180748

SHAUN BOLDY

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

Date Received 05 June 2020  
RM&C Order Ref. L510396  
Customer Order No. 45994  
Calibration Date 10 June 2020  
Next Calibration Due 10 June 2021

## 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	SHAUN BOLDY
Probe Length	350 mm	Last Certificate Number	158314
Probe Diameter	6 mm		
Min. Immersion Depth	200 mm		

## Procedure : RM&C 023 DTI & RTD

RM&C 023: Digital Thermometer & RTD Probe – Issue 5 (Feb-2020)

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 4 – October 2019) 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 :

No measured errors, in the parameters checked, exceeded the customer specified tolerance of  $\pm 0.04$  °C, not taking into account the uncertainty of measurement.

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: 1031401205 & 351839-1 in Ch 1

Reference Temperature °C	Thermometer Reading °C	Measured Error °C	Measurement Uncertainty ± °C
-0.002	-0.001	0.001	0.06
-70.006	-70.012	-0.006	0.06
-0.009	-0.006	0.003	0.06
30.040	30.053	0.013	0.06
149.989	150.012	0.023	0.06
299.932	299.942	0.010	0.06
-0.004	-0.001	0.003	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.

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