

CERTIFICATE OF CALIBRATION

Issued by
Roxspur Measurement & Control Limited

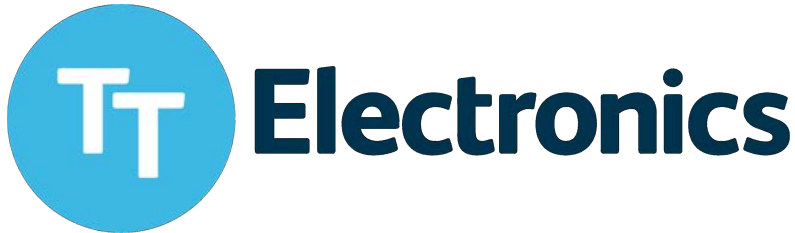


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Date of Issue: 29 June 2022

Certificate Number 215453

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

Date Received 22 June 2022
RM&C Order Ref. 000861
Customer Order No. 46671
Calibration Date 23 June 2022
Next Calibration Due 23 June 2023

Equipment Information

Description	LEYRO LDT-2000 PRECISION THERMOMETER & PT100 PROBE
Manufacturer	LEYRO
Model Number	LDT-2000 & 935-14-116
Calibrated Range	-70 °C to 300 °C
Scale / Resolution	0.001 °C
Calibration Points	-70 °C, 0 °C, 30 °C, 150 °C & 300 °C

Serial Number	1031401205 & 351839/1
Customer Inventory No.	CE1113 & CE1115
RM&C I.D. No.	RMC0044158

Conditions

Lab Temperature	21.0 °C ± 2 °C
Probe Type	Pt100
Probe Length	350 mm
Probe Diameter	6 mm
Min. Immersion Depth	200 mm

Department	TEMP - BATH
Engineer	MARIA TOTH
Last Certificate Number	215453

Procedure : RM&C 023 DTI & RTD

RM&C 023: Digital Thermometer & RTD Probe – Issue 7 (Feb-2022)

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 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.: 1031401205 & 351839-1

Reference Temperature °C	Thermometer Reading °C	Measured Error °C	Measurement Uncertainty °C
-0.003	-0.001	0.002	0.06
-69.980	-69.993	-0.013	0.06
-0.002	-0.006	-0.004	0.06
30.039	30.050	0.011	0.06
150.027	150.036	0.009	0.06
299.847	299.880	0.033	0.06
-0.006	-0.001	0.005	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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