

CERTIFICATE OF CALIBRATION

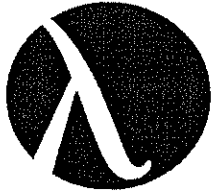
ISSUED BY: LAMBDA CALIBRATION LTD

DATE OF ISSUE: 15 April 2025

CERTIFICATE No: 913011



0495



Lambda
CALIBRATION LTD

Units 11-13
Chorley Central Business Park
Stump Lane, Chorley
Lancashire PR6 0BL
Tel: 01257 244670

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APPROVED SIGNATORY


C Reed E Santos R Armitage
K Quigley D Pilkington

Customer: DJB Labcare Ltd
Address: Unit 12, Cromwell Business Centre
Newport Pagnell, Buckinghamshire
MK16 9QS

Item Number: 24010025 (4046)
Description: Digital Thermometer
Model/Range: TMD-56
Manufacturer: Amprobe
Date of Cal: 15 Apr 2025
Calibrated by: C ODonnell
Procedure Name: Amprobe, Digital Thermometer, TMD-56 (DJB Labcare)
Rev/Basis: 05:E-150, Based on BS EN 60584.1
Temp/Humidity: 20.0°C ± 2°C <80%rh

The Results on the following pages are: As Found

All Measurements are Traceable to National Standards.

Note 1: The unit under test was calibrated using a multifunction calibrator.

Note 2: Where the reported value lies within the specified tolerance then this will be indicated by the word "PASS", if outside then by the word "FAIL".

Note 3: Any supplied test leads have been checked as part of the Visual/Operational test but have not been used during calibration.

Note 4: Temperature indicating instruments that contain an internal reference junction for use with thermocouples are calibrated with the reference junction enabled.

Note 5: Unless otherwise stated, the device has been calibrated with its protective cover removed (if a cover was fitted) and was powered by battery (if applicable).

Engineers' Notes: Batteries replaced.

Equipment Used: Multi-function Calibrator: LMMC-02 / LMMC-04 / LMMC-10 / LMMC-14 ✓

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. Unless otherwise stated: [1] The 'Compliance Statement' is based on 'simple acceptance' (result vs tolerance) with the relevant calibration uncertainty being no greater than the tolerance. [2] Reported activities were carried out at the address detailed in the header. [3] The results relate only to the items calibrated. 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. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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UKAS ACCREDITED CALIBRATION LABORATORY No: 0495

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Parameter	UUT Range	UUT Indicated Value	Applied Value	Acceptance Low	Limits High	Summary
Visual/Operational Test						
Result of Operator Evaluation						PASS
Measurement of Thermocouples (Electrical Simulation)						
Channel T1						
Type T						
	-190.0°C		-190.1	-190.8	-189.2	PASS
	-80.0°C		-80.0	-80.7	-79.3	PASS
	-50.0°C		-50.0	-50.7	-49.3	PASS
	-30.0°C		-30.0	-30.3	-29.7	PASS
	-10.0°C		-10.0	-10.3	-9.7	PASS
	0.0°C		0.0	-0.3	0.3	PASS
	4.0°C		3.9	3.7	4.3	PASS
	37.0°C		37.1	36.7	37.3	PASS
	50.0°C		50.0	49.7	50.3	PASS
	100.0°C		100.1	99.7	100.3	PASS
	150.0°C		150.1	149.6	150.4	PASS
	200.0°C		200.1	199.6	200.4	PASS
	250.0°C		250.1	249.6	250.4	PASS
	300.0°C		300.1	299.6	300.4	PASS
	390.0°C		390.1	389.5	390.5	PASS
	100.0°F		100.3	99.3	100.7	PASS
Type K						
	0.0°C		0.0	-0.3	0.3	PASS
	500.0°C		500.2	499.4	500.6	PASS
	1000.0°C		1000.1	999.2	1000.8	PASS
Type J						
	20.0°C		20.0	19.7	20.3	PASS
	1100.0°C		1100.3	1099.2	1100.8	PASS
Type E						
	20.0°C		20.0	19.7	20.3	PASS
	900.0°C		900.2	899.3	900.8	PASS
Type N						
	20.0°C		19.9	19.6	20.4	PASS
	1100.0°C		1100.3	1099.1	1101.0	PASS
Type R						
	500°C		500	498	502	PASS
	1100°C		1100	1097	1103	PASS
Type S						
	500°C		500	498	502	PASS
	1100°C		1100	1097	1103	PASS

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Parameter	UUT Range	UUT Indicated Value	Applied Value	Acceptance Limits Low High	Summary	
Channel T2						
Type T						
		-190.0°C	-190.1	-190.8	-189.2	PASS
		-80.0°C	-80.1	-80.7	-79.3	PASS
		-50.0°C	-50.0	-50.7	-49.3	PASS
		-30.0°C	-30.0	-30.3	-29.7	PASS
		-10.0°C	-10.0	-10.3	-9.7	PASS
		0.0°C	0.0	-0.3	0.3	PASS
		4.0°C	3.9	3.7	4.3	PASS
		37.0°C	37.1	36.7	37.3	PASS
		50.0°C	50.0	49.7	50.3	PASS
		100.0°C	100.1	99.7	100.3	PASS
		150.0°C	150.0	149.6	150.4	PASS
		200.0°C	200.1	199.6	200.4	PASS
		250.0°C	250.1	249.6	250.4	PASS
		300.0°C	300.1	299.6	300.4	PASS
		390.0°C	390.1	389.5	390.5	PASS
		100.0°F	100.2	99.3	100.7	PASS
Type K						
		0.0°C	0.0	-0.3	0.3	PASS
		500.0°C	500.1	499.4	500.6	PASS
		1000.0°C	1000.2	999.2	1000.8	PASS
Type J						
		20.0°C	20.0	19.7	20.3	PASS
		1100.0°C	1100.4	1099.2	1100.8	PASS
Type E						
		20.0°C	20.0	19.7	20.3	PASS
		900.0°C	900.3	899.3	900.8	PASS
Type N						
		20.0°C	20.0	19.6	20.4	PASS
		1100.0°C	1100.3	1099.1	1101.0	PASS
Type R						
		500°C	500	498	502	PASS
		1100°C	1100	1097	1103	PASS
Type S						
		500°C	500	498	502	PASS
		1100°C	1100	1097	1103	PASS

End of Calibration Data

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Estimated Uncertainty of Measurement:

Electrical Measurement of Thermocouples

Type: B +500°C to +1820°C $\pm 0.65^{\circ}\text{C}$
Type: C +0°C to +2320°C $\pm 0.48^{\circ}\text{C}$
Type: E -200°C to +1000°C $\pm 0.29^{\circ}\text{C}$
Type: J -210°C to +1200°C $\pm 0.32^{\circ}\text{C}$
Type: K -200°C to -250°C $\pm 0.67^{\circ}\text{C}$
Type: K -200°C to +1300°C $\pm 0.34^{\circ}\text{C}$
Type: L -200°C to +900°C $\pm 0.33^{\circ}\text{C}$
Type: N -200°C to -100°C $\pm 0.40^{\circ}\text{C}$
Type: N -100°C to 1300°C $\pm 0.31^{\circ}\text{C}$
Type: R +0°C to +1767°C $\pm 0.61^{\circ}\text{C}$
Type: S +0°C to +1767°C $\pm 0.58^{\circ}\text{C}$
Type: T -250°C to -200°C $\pm 0.70^{\circ}\text{C}$
Type: T -200°C to +400°C $\pm 0.34^{\circ}\text{C}$
(+0.5°C where UUT resolution is 1°C)