CERTIFICATE OF CALIBRATION

ISSÚED BY: LAMBDA CALIBRATION LTD

DATE OF ISSUE: 20 May 2025

CERTIFICATE No: 918589



0495

Page

CALIBRATION LTD

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

1 of 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 90S

Item Number:

13010005 (4046)

Description:

Digital Thermometer

Model/Range:

TMD-56

Manufacturer:

Amprobe

Date of Cal:

20 May 2025

Calibrated by:

Procedure Name:

M Abid

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:

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	Acceptanc Low	e Limits High	Summary
Visual/Opera Result of	tional Tes Operator E	t valuation		· · · · · · · · · · · · · · · · · · ·		PASS
Measurement	of Thermoo	ouples (Electrical S	Simulation			
Channel T1			3.00.00			
Type T						
Туре К		-190.0°C -80.0°C -50.0°C -30.0°C -10.0°C 0.0°C 4.0°C 37.0°C 50.0°C 100.0°C 150.0°C 200.0°C 250.0°C 390.0°C 100.0°F	-190.4 -80.3 -50.2 -30.3 -10.3 -0.3 3.7 36.8 49.7 99.9 149.7 199.9 249.8 299.9 389.9 99.6	-190.8 -80.7 -50.7 -30.3 -10.3 -0.3 3.7 36.7 49.7 99.7 149.6 199.6 249.6 299.6 389.5 99.3	-189.2 -79.3 -49.3 -29.7 -9.7 0.3 4.3 37.3 50.3 100.3 150.4 200.4 250.4 390.5 100.7	PASS PASS PASS PASS PASS PASS PASS PASS
Type J		500.0°C 1000.0°C	-0.2 499.8 999.6	-0.3 499.4 999.2	0.3 500.6 1000.8	PASS PASS PASS
Type E		20.0°C 1100.0°C	19.7 1099.8	19.7 1099.2	20.3 1100.8	PASS PASS
Type N		20.0°C 900.0°C	19.8 899.9	19.7 899.3	20.3 900.8	PASS PASS
Type R		20.0°C 1100.0°C	19.7 1099.9	19.6 1099.1	20.4 1101.0	PASS PASS
Type S		500°C 1100°C	500 1100	498 1097	502 1103	PASS PASS
		500°C 1100°C	500 1100	498 1097	502 1103	PASS PASS

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_	Parameter	UUT Range	UUT Indicated Value	Applied Value	Acceptance Low	e Limits High	Summary
	Channel T2 Type T						
	*, y p < 1		-190.0°C -80.0°C -50.0°C -30.0°C -10.0°C 0.0°C 4.0°C 37.0°C 50.0°C 100.0°C	-190.5 -80.4 -50.4 -30.2 -10.3 -0.2 3.7 36.8 49.8 99.8 149.9	-190.8 -80.7 -50.7 -30.3 -10.3 -0.3 3.7 36.7 49.7	-189.2 -79.3 -49.3 -29.7 -9.7 0.3 4.3 37.3 50.3 100.3	PASS PASS PASS PASS PASS PASS PASS PASS
	Type K		200.0°C 250.0°C 300.0°C 390.0°C 100.0°F	149.9 199.9 249.9 299.8 389.9 99.7	149.6 199.6 249.6 299.6 389.5 99.3	150.4 200.4 250.4 300.4 390.5	PASS PASS PASS PASS PASS PASS
	Type J		0.0°C 500.0°C 1000.0°C	-0.2 499.7 999.6	-0.3 499.4 999.2	0.3 500.6 1000.8	PASS PASS PASS
	Type E		20.0°C 1100.0°C	19.8 1099.9	19.7 1099.2	20.3 1100.8	PASS PASS
	Type N		20.0°C 900.0°C	19.8 899.9	19.7 899.3	20.3 900.8	PASS PASS
	Type R		20.0°C 1100.0°C	19.7 1100.0	19.6 1099.1	20.4 1101.0	PASS PASS
	Type S		500°C 1100°C	500 1100	498 1097	502 1103	PASS PASS
	End of Cali	bration D	500°C 1100°C ata	500 1100	498 1097	502 1103	PASS PASS

Estimated Uncertainty of Measurement:

Electrical Measurement of Thermocouples

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

Report of Calibration for Item No: 13010005 (4046)

Date of Issue: 20 May 2025