CERTIFICATE OF CALIBRATION

ISSUED BY: LAMBDA CALIBRATION LTD

DATE OF ISSUE: 25 February 2025 CERTIFICATE No: 901912

UKAS CALIBRATION
0495

Lambda CALIBRATION LTD

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

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:	13110368 (4046)
Description:	Digital Thermometer
Model/Range:	TMD-56
Manufacturer:	Amprobe
Date of Cal:	25 Feb 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:

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

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Parameter	UUT Range	UUT Indicated Value	Applied Value	Acceptance Limits Low	High	Summary
Visual/Operational Test						
Result of Operator Evaluation						PASS
Measurement of Thermocouples (Electrical Simulation)						
Channel T1						
Type T						
		-190.0°C	-190.2	-190.8	-189.2	PASS
		-80.0°C	-80.1	-80.7	-79.3	PASS
		-50.0°C	-50.1	-50.7	-49.3	PASS
		-30.0°C	-30.1	-30.3	-29.7	PASS
		-10.0°C	-10.1	-10.3	-9.7	PASS
		0.0°C	-0.1	-0.3	0.3	PASS
		4.0°C	3.8	3.7	4.3	PASS
		37.0°C	36.8	36.7	37.3	PASS
		50.0°C	49.8	49.7	50.3	PASS
		100.0°C	99.9	99.7	100.3	PASS
		150.0°C	149.8	149.6	150.4	PASS
		200.0°C	199.9	199.6	200.4	PASS
		250.0°C	249.9	249.6	250.4	PASS
		300.0°C	299.9	299.6	300.4	PASS
		390.0°C	389.9	389.5	390.5	PASS
		100.0°F	99.8	99.3	100.7	PASS
Type K						
		0.0°C	-0.2	-0.3	0.3	PASS
		500.0°C	499.7	499.4	500.6	PASS
		1000.0°C	999.5	999.2	1000.8	PASS
Type J						
		20.0°C	19.8	19.7	20.3	PASS
		1100.0°C	1099.7	1099.2	1100.8	PASS
Type E						
		20.0°C	19.8	19.7	20.3	PASS
		900.0°C	899.8	899.3	900.8	PASS
Type N						
		20.0°C	19.8	19.6	20.4	PASS
		1100.0°C	1099.9	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	Acceptance Limits High	Summary
Channel T2						
Type T						
		-190.0°C	-190.2	-190.8	-189.2	PASS
		-80.0°C	-80.1	-80.7	-79.3	PASS
		-50.0°C	-50.1	-50.7	-49.3	PASS
		-30.0°C	-30.1	-30.3	-29.7	PASS
		-10.0°C	-10.1	-10.3	-9.7	PASS
		0.0°C	-0.1	-0.3	0.3	PASS
		4.0°C	3.9	3.7	4.3	PASS
		37.0°C	36.9	36.7	37.3	PASS
		50.0°C	49.9	49.7	50.3	PASS
		100.0°C	99.9	99.7	100.3	PASS
		150.0°C	149.9	149.6	150.4	PASS
		200.0°C	199.9	199.6	200.4	PASS
		250.0°C	249.9	249.6	250.4	PASS
		300.0°C	299.9	299.6	300.4	PASS
		390.0°C	389.9	389.5	390.5	PASS
		100.0°F	99.8	99.3	100.7	PASS
Type K						
		0.0°C	-0.1	-0.3	0.3	PASS
		500.0°C	499.8	499.4	500.6	PASS
		1000.0°C	999.6	999.2	1000.8	PASS
Type J						
		20.0°C	19.7	19.7	20.3	PASS
		1100.0°C	1099.8	1099.2	1100.8	PASS
Type E						
		20.0°C	19.8	19.7	20.3	PASS
		900.0°C	899.8	899.3	900.8	PASS
Type N						
		20.0°C	19.8	19.6	20.4	PASS
		1100.0°C	1099.9	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 ±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)