

Certificate of Calibration



Calibration Procedure: AM-2009-RO

Customer: M3 Logistics LLC

5303 Brown Bridge Rd Gainesville, GA 30504 Certificate Number: 361059

Calibration Date: 19-Nov-2024

Issue Date: 19-Nov-2024

Due Date:

Model: AM8060

Serial Number: 60150822

Condition: New

Manufacturer: AccuMac Technology Inc Description: Precision Thermometer

The Precision Thermometer referenced above was calibrated by resistance using a set of reference resistors and thermometry bridge. The calibration is compliant to ISO/IEC 17025:2017 and ANSI/NCSL Z540-1:1994. Reference standards used in this calibration are traceable to the SI through an NMI (NIST in USA) recognized through a CIPM MRA. This report shall not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. federal government. This certificate may not be reproduced, except in full, without the written approval of AccuMac Technology Inc.

The following reference standards and measurement equipment were used in this calibration.

Instrument	Model	S/N	Cal Date	Due Date	
Reference Resistor Set	AM-RS999	107	8/5/2024	8/5/2025	

The Precision Thermometer has two internal reference resistors. One is 25-ohm, the other is 100-ohm. When it measures a nominal 25-ohm SPRT/IPRT, it automatically selects the 25-ohm internal reference resistor. When measuring a nominal 100-ohm SPRT/IPRT it automatically selects the 100-ohm internal reference resistor. This process ensures more accurate measurements. The calibration process covers both types of SPRT/IPRT when comparing readout measurements against the reference resistor set. Calibration results are shown in the below tables.

The calibration/test results relate only to the items calibrated/tested with appropriate ranges/values identified. Recorded calibration data is valid at the time of calibration within the stated uncertainties at the environmental conditions noted. When a statement of conformity to a specification or standard is required, AccuMac Technology Inc provides the customer with the measurement result and the associated measurement uncertainty for the customer to make a decision on the suitability of conformance to their specifications.

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All calibration/testing is performed at AccuMac Technology Inc: 90 N. William Dillard Drive C-107, Gilbert, AZ 85233, USA.



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95%. The calibration uncertainty is ±100 µO across the entire measurement range.

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System expanded uncertainty evaluation includes the calibration reference used and unit under test (UUT), and is calculated in accordance with ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The calibration uncertainties are reported at a coverage factor of k=2 for a level of confidence of approximately

Calibration Results

		25-ohm SPRT/IPRT			100-ahm SPRT/IPRT				
	Ref Rs input	Measured	ΔR (Ω)	At (°C)	Tolerance (°C)	Measured	AR (O)	At (°C)	Tolerance (°C)
	9.99974	9.9998	0.00006	0.0006	0.010	10.0010	0.00126	0.0031	0.010
	24.99974	24.9997	-0.00004	-0.0004	0.010	25.0017	0.00196	0.0049	0.010
Channel 1	50.00085	50.0005	-0.00035	-0.0035	0.015	50.0016	0.00075	0.0019	0.010
	75.80667	75.0061	-0.00057	-0.0057	0.020	75.0068	0.00013	0.0003	0.010
	99.99462	100			Section Con-	99.9946	-0.00002	-0.0001	0.008
	200.00886	a Second	Species :	etalini.	10 1 C	200.0087	-0.00016	-0.0004	0.009
	374.99028	. 13				374.9873	-0.00298	-0.0074	0.015
		25-ohra SPRT/IPRT							
		25-ohm SPRT/	NPRT			100-ohun SPR	T/MPRT		
•	Ref Rs Input	25-ohm SPRT/ Measured	NPRT AR (O)	At (°C)	Tolerance (°C)	100-olun SPR Measured	T/MRT AR (D)	W(C)	Tolerance ("C)
	Ref Rs input 9.99974	1		At ("C)	Tolerance (°C)	1		0.0026	Tolerance ("C) 0.010
		Measured	AR (O)			Measured	AR (C)		1
Channel 2	9.99974	Measured 9.9998	AR (Ω) 0.00006	0.0006	0.010	Measured 10.0008	&R (O) 0.00106	0.0026	0.010
Channel 2	9.99974 24.99974	9.9998 24.9997	AR (CI) 0.00006 -0.00004	0.0006 -0.0004	0.010 0.010	10.0008 25.0015	AR (Q) 0.00106 0.00176	0.0026 0.0044	0.010
Channel 2	9.99974 24.99974 50.00085	9.9998 24.9997 50.0005	AR (Ω) 0.00006 -0.00004 -0.00035	0.0006 -0.0004 -0.0035	0.010 0.010 0.015	10.0008 25.0015 50.0016	ΔR (Ω) 0.00106 0.00176 0.00075	0.0026 0.0044 0.0019	0.010 0.010 0.010
Channel 2	9.99974 24.99974 50.00085 75.00667	9.9998 24.9997 50.0005	AR (Ω) 0.00006 -0.00004 -0.00035	0.0006 -0.0004 -0.0035	0.010 0.010 0.015	10.0008 25.0015 50.0016 75.0063	ΔR (Ω) 0.00106 0.00176 0.00075 -0.00037	0.0026 0.0044 0.0019 -0.0009	0.010 0.010 0.010 0.010

Comments:	
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Calibration Environment Conditions	Performed by:
Company of the Compan	Katya Deldyerman
Temperature: 23.5°c	
	Approved by: 7272
	Grea Van Dusen

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