
Customer:	Mesa Laboratories, Inc. Lakewood, CO	Certificate Number:	103197
Description:	PRT	Calibration Date:	29 DEC 2015
Model:	5628	Calibration Due:	29 DEC 2016
Serial Number:	0526	Ambient Temperature:	20 to 27°C
Unit ID:	TE10249	Ambient Humidity:	30 to 50%RH

PO#:	PO-002241	Barcode:	C002462
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Calibration of this instrument is accredited to ISO/IEC 17025:2005 and is traceable to the International System of Units through NIST or other National Measurement Institutes. The reported expanded uncertainty used a coverage factor of k=2 for a level of confidence equal to approximately 95%. The results stated relate only to the item calibrated.

If this Certificate of Calibration is reproduced, it must be duplicated in full, unless permission for the publication of an approved abstract is obtained in writing from Masy BioServices.

This Certificate of Calibration shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.

This Certificate of Calibration is not valid unless appropriately signed.

As Found Condition:
In tolerance.

Action Taken:
Calibrated.

As Left Condition:
In tolerance.

Performed by:



Digitally signed by Amanda
Silva, Calibration Technician
Reason: I am the author of this
document
Date: 2015.12.29 15:33:58
-05'00'

Approved by:



Digitally signed by Sarah
Wilson, Quality Specialist
Reason: I am approving
this document
Date: 2015.12.30 11:35:47
-05'00'

PRT Loop 1 Ch W4W9 (Rev 1)

Calibration Measurement Results

Work Instruction: Thermometer PRT Loop Calibration Rev. 0
Comments: None.

Certificate Number: 103197

Measurement Results

Test Description		As Found Measurement Results				As Left Measurement Results				Measurement Uncertainty
Function	Nominal	Standard	UUT	Error	MPE (Tolerance)	Standard	UUT	Error	MPE (Tolerance)	
Temperature Measurements	232.0°C	232.0031	232.014	0.0109	±0.025	232.0036	232.007	0.0034	±0.025	0.015°C
	157.0°C	156.4880	156.488	0.0000	±0.025	156.4810	156.487	0.0060	±0.025	0.015°C
	0.0°C	0.0091	0.017	0.0079	±0.025	0.0095	0.010	0.0005	±0.025	0.012°C
	-39.0°C	-38.7156	-38.708	0.0076	±0.025	-38.7152	-38.711	0.0042	±0.025	0.012°C
	-196.0°C	-195.6448	-195.642	0.0028	±0.025	-195.6769	-195.679	-0.0021	±0.025	0.016°C

* Asterisk denotes an Out of Tolerance measurement.

Configuration and Coefficient Details

Thermometer Information	
Model:	1502A
Serial Number:	A21667
Unit ID:	TE10248
Channel:	1

Coefficient:	As Found	As Left:
R0	25.5394	25.5403
A9	-3.613936E-04	-4.727289E-04
B9	-4.626194E-05	4.489748E-05
A4	-3.713509E-04	-2.818115E-04
B4	-1.793417E-05	3.855123E-05

Measurement Standards Used

MSI	Description	Serial Number	Calibration Due Date
5739	Super Thermometer	A17148	27 FEB 2016
3582	Resistor, Standard	1100706	14 JAN 2016
8720	PRT	2532	03 AUG 2016
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA

This calibration is based on the information contained in NIST Technical Note 1265, "Guidelines for Realizing the International Temperature Scale of 1990 (ITS-90)" section 4.6. The comparison standards used were calibrated in accordance with ITS-90 and are traceable to SI.

~ End of Report ~