
Customer:	Mesa Laboratories, Inc. Lakewood, CO	Certificate Number:	106361
Description:	PRT	Calibration Date:	15 AUG 2016
Model:	5628	Calibration Due:	15 AUG 2017
Serial Number:	3602	Ambient Temperature:	20 to 27°C
Unit ID:	NA	Ambient Humidity:	30 to 50%RH
		Barcode:	C006918

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:

New unit. All readings are post initial calibration.

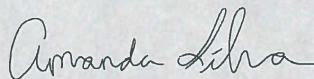
Action Taken:

Calibrated with adjustment.

As Left Condition:

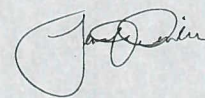
In tolerance.

Performed by:



Digitally signed by Amanda
Silva, Calibration Technician
Reason: I am the author of
this document
Date: 2016.08.17 13:41:52
-04'00'

Approved by:



Digitally signed by
Jennifer Weinbeck,
Quality Associate I
Reason: I am
approving this
document
Date: 2016.08.17
15:45:13 -04'00'

PRT Loop-Comparison (Rev 0)

Calibration Measurement Results

Certificate Number: 106361

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

Measurement Results

* Asterisk denotes an Out of Tolerance measurement.

Nominal	As Found Measurement Results			As Left Measurement Results			Expanded Uncertainty	
	Standard	UUT	Error	MPE (Tolerance)	Standard	UUT		Error
420°C	418.785	418.791	0.007	±0.025	418.785	418.791	0.007	±0.025
232°C	231.592	231.592	0.000	±0.025	231.592	231.592	0.000	±0.025
157°C	156.509	156.511	0.002	±0.025	156.509	156.511	0.002	±0.025
0°C	0.010	0.010	0.000	±0.025	0.010	0.010	0.000	±0.025
-39°C	-38.715	-38.715	-0.001	±0.025	-38.715	-38.715	-0.001	±0.025
-196°C	-195.685	-195.684	0.001	±0.025	-195.685	-195.684	0.001	±0.025

Configuration and Coefficient Details

Thermometer Information		Coefficient	As Found	As Left
Model:	1502A	R0	25.6490	25.6490
Serial Number:	B01442	A	-1.099090E-04	-1.099090E-04
Unit ID:	TE10475	B	1.462218E-05	1.462218E-05
Channel:	1	C	-1.049388E-05	-1.049388E-05
		A4	-3.496211E-05	-3.496211E-05
		B4	8.626856E-06	8.626856E-06

Measurement Standards Used

MSI	Description	Serial Number	Calibration Due
7441	Super Thermometer	A09098	09 SEP 2016
3582	Resistor, Standard	1100706	15 FEB 2017
1999	SPRT	1119	16 NOV 2016
4816	SPRT	0548	09 FEB 2017
8786	Water Triple-Point Cell	C-G2040	NA
8327	Radiol-ogger	0215-00845	30 APR 2017

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 ~