
Customer:	Mesa Laboratories, Inc. Lakewood, CO	Certificate Number:	117529
Description:	PRT	Calibration Date:	16 MAY 2018
Model:	5628	Calibration Due:	16 MAY 2019
Serial Number:	2735	Ambient Temperature:	20 to 27°C
Unit ID:	TE10643	Ambient Humidity:	30 to 50%RH
		Barcode:	C006466

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.

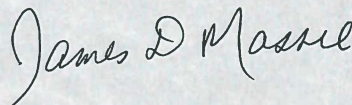
This Certificate of Calibration is not valid unless appropriately signed.

As Found Condition:
In tolerance.

Action Taken:
Annealed and Calibrated with adjustment.

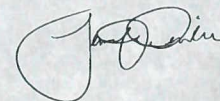
As Left Condition:
In tolerance.

Performed by:



Digitally signed by James
Massie, Senior Calibration
Technician
Reason: I attest to the accuracy
and integrity of this document
Date: 2018.05.16 10:01:35
-04'00'

Approved by:



Digitally signed by
Jennifer Weinbeck,
Quality Associate I
Reason: I am approving
this document
Date: 2018.05.17
12:42:34 -04'00'

MET-CRT-0278 PRT (Rev 1b)

Calibration Measurement Results

Calibration Procedure: Thermometer PRT Loop Calibration (Rev 2)

Certificate Number: 117529

As Found Measurement Results

Nominal	Standard	UUT	Deviation	Tolerance	Status	Expanded Uncertainty
420°C	419.3701°C	419.378°C	0.0079°C	±0.0250°C	Pass	6.0E-03°C
232°C	231.9532°C	231.963°C	0.0098°C	±0.0250°C	Pass	4.5E-03°C
157°C	156.6153°C	156.625°C	0.0097°C	±0.0250°C	Pass	3.9E-03°C
0°C	0.0099°C	0.015°C	0.0051°C	±0.0250°C	Pass	1.7E-03°C
-39°C	-38.7043°C	-38.702°C	0.0023°C	±0.0250°C	Pass	2.6E-03°C
-196°C	-195.7194°C	-195.721°C	-0.0016°C	±0.0250°C	Pass	3.7E-03°C

As Left Measurement Results

Nominal	Standard	UUT	Deviation	Tolerance	Status	Expanded Uncertainty
420°C	419.3733°C	419.374°C	0.0007°C	±0.0250°C	Pass	6.0E-03°C
232°C	231.9530°C	231.954°C	0.0010°C	±0.0250°C	Pass	4.5E-03°C
157°C	156.6114°C	156.610°C	-0.0014°C	±0.0250°C	Pass	3.9E-03°C
0°C	0.0099°C	0.010°C	0.0001°C	±0.0250°C	Pass	1.7E-03°C
-39°C	-38.7043°C	-38.703°C	0.0013°C	±0.0250°C	Pass	2.6E-03°C
-196°C	-195.7677°C	-195.767°C	0.0007°C	±0.0250°C	Pass	3.7E-03°C

Calibration Measurement Results

Calibration Procedure: Thermometer PRT Loop Calibration (Rev 2)

Certificate Number: 117529

Configuration Details

Thermometer Information		Coefficient	As Found	Coefficient	As Left
Model	1502	R0	25.5575	R0	25.5572
Serial Number	B34335	A7	-5.075847E-04	A8	-4.085063E-04
ID	TE10642	B7	5.872663E-05	B8	-4.271752E-05
Channel	1	C7	-2.462948E-05	A4	-4.040617E-04
		A4	-4.378445E-04	B4	9.684101E-08
		B4	-7.843454E-06		

Measurement Standards Used

MSI	Description	Serial Number	Cal Due Date
7441	Super Thermometer	A09098	17 AUG 2018
3582	Resistor, Standard	1100706	31 MAR 2019
4816	SPRT	0548	31 JAN 2019
8772	SPRT	0543	31 MAR 2019
10067	Water Triple-Point Cell	C-Q1011	NCR
8327	RadioLogger	0215-00845	30 APR 2019

Comments

None.

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 ~