
Customer:	Mesa Laboratories, Inc.	Certificate Number:	114092
	Lakewood, CO	Calibration Date:	08 NOV 2017
Description:	PRT	Calibration Due:	08 NOV 2018
Model:	5628	Ambient Temperature:	20 to 27°C
Serial Number:	0258	Ambient Humidity:	30 to 50%RH
Unit ID:	TE10348	Barcode:	C001567

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.

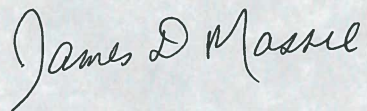
This Certificate of Calibration is not valid unless appropriately signed.

As Found Condition:
In tolerance.

Action Taken:
Calibrated with adjustment.

As Left Condition:
In tolerance.

Performed by:



Digitally signed by James
Massie, Calibration Technician

Reason: I attest to the accuracy
and integrity of this document
Date: 2017.11.08 12:49:24
-05'00'

Approved by:



Digitally signed by Sarah
Wilson, Quality Specialist
Reason: I am approving
this document
Date: 2017.11.09 09:51:45
-05'00'

PRT (Rev 1a)

Calibration Measurement Results

Calibration Procedure: Thermometer PRT Loop Calibration (Rev 1)

Certificate Number: 114092

As Found Measurement Results

Nominal	Standard	UUT	Deviation	Tolerance	Status	Expanded Uncertainty
420°C	417.8339°C	417.846°C	0.0121°C	0.0250°C	Pass	6.0E-03°C
232°C	231.5909°C	231.604°C	0.0131°C	0.0250°C	Pass	4.5E-03°C
157°C	156.5339°C	156.544°C	0.0101°C	0.0250°C	Pass	3.9E-03°C
0°C	0.0099°C	0.014°C	0.0043°C	0.0250°C	Pass	1.7E-03°C
-39°C	-38.6953°C	-38.691°C	0.0043°C	0.0250°C	Pass	2.6E-03°C
-196°C	-195.6587°C	-195.660°C	-0.0013°C	0.0250°C	Pass	2.7E-03°C

As Left Measurement Results

Nominal	Standard	UUT	Deviation	Tolerance	Status	Expanded Uncertainty
420°C	417.8340°C	417.839°C	0.0050°C	0.0250°C	Pass	6.0E-03°C
232°C	231.5911°C	231.589°C	-0.0021°C	0.0250°C	Pass	4.5E-03°C
157°C	156.5334°C	156.531°C	-0.0024°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	-38.7034°C	-38.705°C	-0.0016°C	0.0250°C	Pass	2.6E-03°C
-196°C	-195.6337°C	-195.635°C	-0.0013°C	0.0250°C	Pass	2.7E-03°C

Calibration Measurement Results

Calibration Procedure: Thermometer PRT Loop Calibration (Rev 1)

Certificate Number: 114092

Configuration Details

Thermometer Information		Coefficient	As Found	As Left
Model	1502A	R0	25.4247	25.4251
Serial Number	A1C638	A8	-9.120014E-05	-2.789188E-05
ID	TE10246	B8	-1.635235E-05	-6.093612E-05
Channel	1	A4	-4.126663E-05	-2.751899E-05
		B4	9.518119E-06	1.573839E-05

Measurement Standards Used

MSI	Description	Serial Number	Cal Due Date
5739	Super Thermometer	A17148	07 DEC 2017
3580	Resistor, Standard	1100605	31 MAR 2018
8247	SPRT	0832	14 JAN 2018
4816	SPRT	0548	27 DEC 2017
8785	Water Triple-Point Cell	D-Q1101	NCR
8327	RadioLogger	0215-00845	30 APR 2018

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 ~