



ThermoProbe Report of Test

This report is to certify that the instrument listed below has been calibrated by **ThermoProbe, Inc.** to NIST traceable criteria.

Report No.: **2016-04-26 - 0063 CHANNEL 1**

Model: TL2-A

Unit SN: TL2-0063

Probe SN: C3B4D6

Calibration Date: **4/26/2016**

Ambient Temp: 23°C +/- 2°C

Calibrated By: JM

Calibration Data As Found

New Unit or no "As Found" data available

Calibration Data As Left

This device has been adjusted to read as closely as possible to actual temperature.

Tested temperatures and corrections are as follows:

Nominal Value		Actual Test Temp.		Reading of TL2		Correction		Tolerance		In Tolerance	Measurement Uncertainty	
°F	°C	°F	°C	°F	°C	°F	°C	°F	°C		°F	°C
-4	-20	-3.997	-19.998	-4.001	-20.001	0.004	0.002	0.050	0.030	Yes	0.030	0.017
32	0	32.007	0.004	31.997	-0.002	0.010	0.006	0.050	0.030	Yes	0.030	0.017
120	49	120.008	48.893	120.007	48.893	0.001	0.001	0.050	0.030	Yes	0.030	0.017
199	93	199.004	92.780	198.999	92.777	0.005	0.003	0.050	0.030	Yes	0.030	0.017
300	149	300.202	149.001	300.199	148.999	0.003	0.002	0.050	0.030	Yes	0.030	0.017

Calendar Van Dusen Coefficients:

R0: 99.97

A: 3.91096E-03

B: -5.95328E-07

C: -1.18791E-11

Report of Test

Test Method: The calibration procedures used were *ThermoProbe, Inc. Calibration Procedures* based on ASTM E-644-06. This probe was immersed in a constant temperature bath with a reference thermometer which determined the actual test temperature. The readings were compared and correction factors for the probe were calculated. The As Left readings reflect the TL2's readings after calibration

Nominal Temp		Bath	Fluid	Reference	Calibration Date	Next Calibration Due
(-)20.0° C	(-)4.0° F	Fluke 7340	water/glycol	TL2-0029	3/24/2016	3/24/2017
0.0° C	32.0° F	Fluke 7340	water/glycol	TL2-0016	3/24/2016	3/24/2017
48.9° C	120.0° F	PolyScience 8101	mineral oil	TL2 - 0008	3/24/2016	3/24/2017
92.8° C	199.0° F	Fluke 6330	mineral oil	Fluke 1502A - ASP WSP500	3/24/2016	3/24/2017
149.0° C	300.2° F	Fluke 6330	silicon oil	Fluke 1502A - ASP WSP500	3/24/2016	3/24/2017
290.0° C	554.0° F	metrology well		TL2A-0053	12/17/2015	12/17/2016

Traceability: This calibration and the references stated above are traceable to NIST through an unbroken chain of comparisons.

Uncertainty Statement: Uncertainties were computed using the concepts, methods and techniques of the ISO Guide to the Expression of Uncertainty in Measurement (the GUM). The calculated uncertainty is an expanded uncertainty (k=2). It does not consider errors due to possible damage to the TL2 from shipping, temperature drift, or thermal hysteresis effect. To maintain the accuracy of the TL2, users should take care to protect it during shipping, avoid using it to measure temperatures significantly above the highest calibrated temperature, and have the TL2 recalibrated annually.

Calibrator's Signature: _____

Test Results Approved by: _____

Date: **4/26/2016**

The results stated on this report relate only to the items specifically identified. This test report or calibration certificate shall not be reproduced except in full, without written approval of the laboratory.