ThermoProbe
112A Jetport Dr.
Pearl, MS 39208

Report of Test

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

Report No.: **2019-09-17 - 3A-10941**
Model: TL3-A

Serial Number: **3A-10941**
Calibration Date: **9/17/2019**
Ambient Temp: 75 °F +/- 2°
Calibrated By: MC

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 TL		Correction		Tolerance		In Tolerance	Measurement Uncertainty	
° F	*° C*	° F	*° C*	° F	*° C*	° F	*° C*	° F	*° C*		° F	*° C*
32	*0*	**31.997**	*-0.002*	**32.00**	*0.00*	**0.00**	*0.00*	**0.10**	*0.06*	Yes	**0.030**	*0.017*
120	*49*	**120.011**	*48.895*	**120.01**	*48.89*	**0.00**	*0.00*	**0.10**	*0.06*	Yes	**0.030**	*0.017*
199	*93*	**199.013**	*92.785*	**199.02**	*92.79*	**-0.01**	*0.00*	**0.10**	*0.06*	Yes	**0.030**	*0.017*
300	*149*	**300.201**	*149.001*	**300.20**	*149.00*	**0.00**	*0.00*	**0.10**	*0.06*	Yes	**0.030**	*0.017*

Callendar Van Dusen Coefficients:

R0: 100.00 A: 3.90800E-03 B: -5.77500E-07 C: -4.18300E-12

Traceability:

This calibration and the following references are traceable to NIST through an unbroken chain of comparisons.

Nominal Temp		Bath	Fluid	Reference	Calibration Date	Next Calibration Due
(-)20.0° C	(-)4.0° F	Fluke 7340	water/glycol	TL2-0357	5/10/2019	5/10/2020
0.0° C	32.0° F	Fluke 7340	water/glycol	TL2-0358	5/10/2019	5/10/2020
48.9° C	120.0° F	Polyscience PD15HCAL	distilled water	TL2 - 0359	5/10/2019	5/10/2020
92.8° C	199.0° F	Fluke 6330	silicon oil	TL2-0360	5/10/2019	5/10/2020
149.0° C	300.2° F	Fluke 6330	silicon oil	TL2 - 0361	5/10/2019	5/10/2020

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 TL's readings after calibration.

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 TL from shipping, temperature drift, or thermal hysteresis effect. To maintain the accuracy of the TL, users should take care to protect it during shipping, avoid using it to measure temperatures significantly above the highest calibrated temperature, and have the TL

Calibrator's Signature: _____

Test Results Approved by: _____

Date: **9/17/2019**