



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**Thunder Scientific Corporation**

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**CALIBRATION LABORATORIES**

**NVLAP LAB CODE 200582-0**

*NVLAP Code:* 20/A01      ANSI/NCSL Z540-1-1994; Part 1      Compliant

**THERMODYNAMIC**

*NVLAP Code:* 20/T02

Humidity Generation  
Field Service Calibration available for Thunder Scientific Corporation Model 2500 Series <sup>note2</sup>

<b>Range</b>	<b>Best Uncertainty (<math>\pm</math>) <sup>note 1</sup></b>	<b>Remarks</b>
0% to 99%	0.3 %	Relative Humidity
-90.0 °C to -70.0 °C	0.2 °C	Frost Point Temperature
-70.0 °C to 0.0 °C	0.1 °C	Dew/Frost Point Temperature
0.0 °C to 70.0 °C	0.05 °C	Dew/Frost Point Temperature
Humidity Measurement		
-90.0 °C to -70.0 °C	0.2 °C	Frost Point Temperature
-70.0 °C to 70.0 °C	0.1 °C	Dew/Frost Point Temperature

2010-07-01 through 2011-06-30

*Effective dates*

*Sally S. Bruce*

*For the National Institute of Standards and Technology*



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Pressure

<i>Range in psi</i>	<i>Best Uncertainty (±) in %<sup>note 1</sup></i>	<i>Remarks</i>
0 to 600	0.005 % of reading	Ruska 2465 Piston Pressure Gage
0 to 500	0.015 % of full scale	Mensor PCS400 Pressure Controller

*NVLAP Code:* 20/T07

Resistance Thermometry

<i>Range in °C</i>	<i>Best Uncertainty (±) in °C<sup>note 1</sup></i>	<i>Remarks</i>
-80 to 85	0.003	Hart 1575/5680
-80 to 85	0.012	Hart 1560/5626
-10 to 85	0.03	Hart 1504/5665

1. Represents an expanded uncertainty using a coverage factor, k = 2, at an approximate level of confidence of 95 %.
2. Uncertainties associated with field service calibration will incorporate on-site environmental contribution.

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