



**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 ^{note2}

Range	Best Uncertainty (\pm) ^{note 1}	Remarks
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

NVLAP Code: 20/T05
Pressure

2009-07-01 through 2010-06-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



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<i>Range in psi</i>	<i>Best Uncertainty (±) in %^{note 1}</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^{note 1}</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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