



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Thunder Scientific Corporation

623 Wyoming Blvd SE
Albuquerque, NM 87123-3198
Mr. Brad Bennewitz
Phone: 505-265-8701 Fax: 505-266-6203
E-mail: bbennewitz@thunderscientific.com
URL: <http://www.thunderscientific.com>

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 |

2009-07-01 through 2010-06-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



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NVLAP Code: 20/T05

Pressure

| <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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