

Troemner Calibration Services – Humidity



Precision & Balance Matched Only By Nature.



Troemner offers standard and custom calibration services for a wide variety of humidity measuring devices including chart recorders/data loggers, sensors, hygrothermographs, and hygrometers. Troemner also calibrates humidity generators and dew point hygrometers.

Facility

The Humidity Calibration Laboratory is ISO/IEC 17025 compliant and accredited by NVLAP. Environmental conditions in the Laboratory are strictly monitored and controlled.

Equipment

Troemner's Humidity Calibration Laboratory utilizes the "two-pressure" and "two-temperature" humidity generation process developed and proven by NIST. This design produces high precision humidity determinations ideal for instrument calibration and evaluation. Laboratory capabilities are 10% to 95% (+/- 0.7%) Relative Humidity. Temperature range covered is 0°C to 70°C (+/- 0.06°C). A dew point reference standard is also used for the calibration of humidity generators, dew point hygrometers and other humidity standards for a temperature range of -40°C to 90°C.

Processes

Troemner offers standard and custom humidity calibration procedures. Troemner's NVLAP Humidity Calibration Certificate is a detailed, multi-page document designed to meet all regulatory and audit requirements including all ISO (including ISO/IEC 17025), FDA, GMP, GLP, DOD, NCCLS, CLIA, ANSI/NCCL Z540-1, and nuclear requirements. The NIST-administered National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 105013-0) approves all procedures for this detailed humidity certificate. To review the document details please visit our website at www.troemner.com.

NVLAP Calibration Certificate for Humidity

– We provide a detailed, multi-page humidity calibration certificate designed to meet all regulatory and audit requirements including all ISO (including ISO/IEC 17025), FDA, GMP, GLP, DOD, NCCLS, CLIA, ANSI/NCCL Z540-1, and nuclear requirements. Technical data includes "as found" and "as left" measurements of applied and indicated humidity, standard temperature, temperature of device under test, uncertainty of measurement process and tolerance of device.

Humidity Calibration Services Include:

- **Calibration capabilities:** 10% to 95% (+/- 0.7%) Relative Humidity @ 0°C to 70°C (+/- 0.06°C)
Dew Point @ -40°C to 90°C
- **Types of instruments serviced include:** Chart recorders/Data loggers, Hygrothermographs, Sensors, Hygrometers, Humidity generators and Dew point hygrometers
- **ISO/IEC 17025 compliant laboratory**
- **NVLAP accredited calibrations**
- **Fast turnaround time**

Troemner offers standard and custom calibration services. Below is a description of the three standard humidity calibration services available from Troemner:

HUMIDITY CALIBRATION SERVICES

	Level 1	Level 2	Level 3
NVLAP Accredited Calibration	•	•	•
NIST Traceable	•	•	•
Uncertainty data	•	•	•
Turnaround time	Less than 2 weeks	Less than 2 weeks	Less than 2 weeks
Expedited service available	•	•	•
"As found" data	3 points Relative Humidity* (25%, 50%, 75%)	3 points Relative Humidity* (25%, 50%, 75%)	1 point Relative Humidity (25%, 50% or 75%)
Adjustments	•	•	
"As left" data	3 points Relative Humidity* (25%, 50%, 75%)	3 points Relative Humidity* (25%, 50%, 75%)	
Temperature calibration	3 Temperature Points* (20°C, 23°C, 25°C)	1 Temperature Point* (23°C)	1 Temperature Point* (23°C)

*Troemner can tailor your calibration with additional or custom Relative Humidity and Temperature points for an additional charge.