

CALIBRATION

SERVICES 

Calibrate



Certify



Repair

Full Service
Calibration
Provider

At **TROEMNER** we address every variable of our measurement process to ensure consistency of calibration, which leads to accurate results in your processes, products and services.

Need a Quote? Simply send us an email or give us a call.

troemner@troemner.com • 856.686.1600



WEIGHT

Accreditation

ISO/IEC 17025, Accredited by NVLAP*.

Laboratory Scope

From 1 mg to 1000 kg (0.000035 oz to 3000 lb) with capabilities from 0.050 mg to 5000 lb.

Service Levels

- ISO 17025, NVLAP* Accredited Certificates of Mass Calibration, ISO 17025, NVLAP* Accredited Calibrations for Mass Value, Density Determination, and Magnetic Susceptibility Determination.

* NVLAP Laboratory Code 105013-0

Weights Serviced

Analytical Precision Weights, OIML Precision Weights, Electronic Balance Weights, Cast Iron Weights, Brass Weights, Stainless Steel Test Weights, and Heavy Capacity Weights.

Fast Turnaround Time

6 business days.

Laboratory Personnel

Metrology staff and technicians are trained by the National Institute of Standards & Technology (NIST).

Laboratory Processes

Receive weight at Troemner's facility, visually inspect weight, clean if required, collect as-found calibration measurement data, adjust or repair weight if required, collect as-left calibration measurement data, calibration certificate is reviewed by an approved metrology signatory, weight is packaged and returned.

Need a Repair?

If your weights are found to be out of tolerance, Troemner will make the proper adjustments to bring them back into tolerance.



PIPETTE

Accreditation

ISO/IEC 17025, Accredited by NVLAP*.

Laboratory Scope

NVLAP* accredited from 0.1 μl through 50 ml with capabilities up to 100 ml.

Service Levels

- 10-10-10 as-found, as-left for single and multi-channel pipettes.
- 4-4-4 as-found, 10-10-10 as-left for single and multi-channel pipettes.
- 4-4-4 as-found, as-left for single and multi-channel pipettes.
- 4-4 as-found, as-left for single and multi-channel pipettes.
- 4-4-4 as-found only for single and multi-channel pipettes.
- 4-4 as-found only for bottle dispensers/burettes.
- Replacement of seals and O-rings.

* NVLAP Laboratory Code 105013-0

Devices Serviced

Single channel pipettes, multi-channel pipettes, fixed volume pipettes, repeaters, and burettes.

Fast Turnaround Time

5 business days.

Laboratory Personnel

Metrology staff and technicians are trained and certified by pipette manufacturers.

Laboratory Processes

Receive device at Troemner's facility, visually inspect device, collect as-found calibration measurement data, adjust or repair device if required, collect as-left calibration measurement data, calibration certificate is reviewed by an approved metrology signatory, device is packaged and returned.

Need a Repair?

Troemner makes every effort to repair your device. If for any reason you need a repair that cannot be done in house, we will facilitate a manufacturer repair on your behalf.



TEMPERATURE

Accreditation

ISO/IEC 17025, Accredited by NVLAP*.

Laboratory Scope

From -196°C to 660°C for Comparison Calibrations and Fixed-Point Calibrations from the triple point of Argon to the Aluminum freezing point ($-189.3442^{\circ}\text{C}$ to 660.323°C). Liquid-in-glass calibrations from -35°C to 250°C .

Service Levels

- SPRT or Thermistors by Fixed-Point.
- SPRT by Comparison to SPRT.
- PRT or Thermistors by Comparison to SPRT.
- Systems by Comparison to SPRT.
- Liquid-in-Glass by Comparison to SPRT.

* NVLAP Laboratory Code 105013-0

Devices Serviced

Include SPRT's, RTD's, PRT's, thermistors, digital readouts, systems, liquid-in-glass thermometers, and thermocouples.

Fast Turnaround Time

2 weeks. (Exception Fixed-Point 4-6 weeks.)

Laboratory Personnel

Metrology staff and technicians are trained by the National Institute of Standards & Technology (NIST).

Laboratory Processes

Receive device at Troemner's facility, visually inspect device, contact customer to review service levels requested, collect as-found calibration measurement data, adjust or repair device if required, collect as-left calibration measurement data, calibration certificate is reviewed by an approved metrology signatory, device is packaged and returned. Probe calibrations undergo a stability and annealing process prior to calibration.

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Troemner makes every effort to repair your device. If for any reason you need a repair that cannot be done in house, we will facilitate a manufacturer repair on your behalf.



PRESSURE

Accreditation

ISO/IEC 17025, Accredited by NVLAP*.

Laboratory Scope

From 0.004" H₂O to 1000 psi with uncertainties as low as 0.11 Pa of reading.

Service Levels

- 21 Points - 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 90, 80, 70, 60, 50, 40, 30, 20, 10, 0 % FS.
- 16 Points - 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 80, 60, 40, 20, 0 % FS.
- 13 Points - 0, 12.5, 25, 37.5, 50, 62.5, 75, 87.5, 100, 75, 50, 25, 0 % FS.
- 11 Points - 0, 20, 40, 60, 80, 100, 80, 60, 40, 20, 0 % FS.
- 9 Points - 0, 25, 50, 75, 100, 75, 50, 25, 0 % FS.
- 7 Points - 0, 25, 50, 75, 100, 50, 0 % FS.
- 5 Points - 0, 50, 100, 50, 0 % FS.
- Dead Weight Tester.

* NVLAP Laboratory Code 105013-0

Devices Serviced

Include gauges, transducers, calibrators, monitors, dead weight testers, and thermocouples.

Fast Turnaround Time

2 weeks.

Laboratory Personnel

Metrology staff and technicians are trained and certified by manufacturers.

Laboratory Processes

Receive device at Troemner's facility, visually inspect device, contact customer to review service levels requested, collect as-found calibration measurement data, adjust or repair device if required, collect as-left calibration measurement data, calibration certificate is reviewed by an approved metrology signatory, device is packaged and returned.

Need a Repair?

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HUMIDITY

Accreditation

ISO/IEC 17025, Accredited by NVLAP*.

Laboratory Scope

From 10% to 95% Relative Humidity and Dew Point Calibration from -20°C to 70°C.

Service Levels

- 3 RH points @ 1 temperature - default is 25%, 50%, 75% RH @ 21.5°C as-found/as-left.
- 3 RH points @ 3 temperatures - default is 25%, 50%, 75% RH and 19°C, 21.5°C, 24°C as-found/as-left.
- 3 temperatures @ 1 RH - default is 19°C, 21.5°C, 24°C @ 50% RH.
- 1 RH @ 1 temperature - default is 50% @ 21.5°C as-found or as-left only.
- Additional points available upon request.
- Dew point calibrations.
- 3, 5 or 7 dew points as-found/as-left across the range of the device.
- Humidity generators - as-found/as-left data for RH, dew point, pressure and flow. Parameters and points dependent upon type and range of generator.

* NVLAP Laboratory Code 105013-0

Devices Serviced

Include chart recorders, data loggers, hygrometers, hygrothermographs, humidity generators, dew point hygrometers, and humidity chambers.

Fast Turnaround Time

2 weeks.

Laboratory Personnel

Metrology staff and technicians are trained and certified by device manufacturers.

Laboratory Processes

Receive device at Troemner's facility, visually inspect device, contact customer to review service levels requested, collect as-found calibration measurement data, adjust or repair device if required, collect as-left calibration measurement data, calibration certificate is reviewed by an approved metrology signatory, device is packaged and returned.

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THERMAL MASS FLOW

Accreditation

ISO/IEC 17025, Accredited by NVLAP*.

Laboratory Scope

From 2 sccm to 100 slpm flowing N2 and to 30 slpm flowing air.

Service Levels

- Level 1 - 7 point as-found/as-left. Complete disassembly and cleaning of device.
- Level 2 - 7 point as-found/as-left.
- Level 3 - 7 point as-found or as-left only.
- Rotometer Calibration - 7 to 10 points as-found/as-left. Points dependent on scale divisions.

* NVLAP Laboratory Code 105013-0

Devices Serviced

Flow meters and controllers from virtually any manufacturer. Variable volume meters (rotometers) can also be calibrated.

Fast Turnaround Time

2 weeks.

Laboratory Personnel

Metrology staff and technicians are factory trained and authorized by a leading manufacturer of gas flow meters and flow controllers.

Laboratory Processes

Receive device at Troemner's facility, visually inspect device, contact customer to review service levels requested, collect as-found calibration measurement data, adjust or repair device if required, collect as-left calibration measurement data, calibration certificate is reviewed by an approved metrology signatory, device is packaged and returned.

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ELECTRICAL

Accreditation

ISO/IEC 17025, Accredited by NVLAP*.

Laboratory Scope

Includes DC voltage, DC current, AC voltage, AC current, DC resistance, AC/DC power and frequency. Capabilities include capacitance calibration.

Service Levels

- Level 1 – A comprehensive calibration at multiple test points per parameter range according to manufacturer recommendations.
- Level 2 – A basic calibration with minimal test points per parameter to fit tighter budgets.

* NVLAP Laboratory Code 105013-0

Devices Serviced

Include multimeters, electrical simulators, calibrators, data loggers, sourcing calibrators, and power supplies.

Fast Turnaround Time

2 weeks.

Laboratory Personnel

Metrology staff and technicians are trained and certified by device manufacturers.

Laboratory Processes

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DIMENSIONAL

Accreditation

ISO/IEC 17025, Accredited by NVLAP*.

Laboratory Scope

From 0.05" to 12" with capabilities up to 18".

Service Levels

- Level 1: 3 to 10 points including repeatability measurements dictated by range of the device.

Devices Serviced

Include calipers, micrometers, depth gauges, and rulers.

Fast Turnaround Time

2 weeks.

Laboratory Personnel

Metrology staff and technicians are trained and certified by device manufacturers.

Laboratory Processes

Receive device at Troemner's facility, visually inspect device, contact customer to review service levels requested, collect as-found calibration measurement data, adjust or repair device if required, collect as-left calibration measurement data, calibration certificate is reviewed by an approved metrology signatory, device is packaged and returned.

Need a Repair?

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TIME AND FREQUENCY

Accreditation

ISO/IEC 17025, Accredited by NVLAP*.

Laboratory Scope

From 0.11 Hz to 2 MHz.

Service Levels

- Level 1: 3 test points as-found/as-left are measured.
- Level 2: Up to 10 points as-found/as-left across the range are measured.

* NVLAP Laboratory Code 105013-0



Devices Serviced

Include tachometers, stop watches and timers.

Fast Turnaround Time

2 weeks.

Laboratory Personnel

Metrology staff and technicians are trained and certified by device manufacturers.

Laboratory Processes

Receive device at Troemner's facility, visually inspect device, contact customer to review service levels requested, collect as-found calibration measurement data, adjust or repair device if required, collect as-left calibration measurement data, calibration certificate is reviewed by an approved metrology signatory, device is packaged and returned.

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