

ISO/IEC 17025 COMPLIANT LABORATORY  
 three levels of service

# THERMAL MASS FLOW

## VERIFICATION • TRACEABLE

# UltraClass

### Utilize the latest flow calibration technology

Troemner's gas flow calibration system employs a laminar flow method reaching unprecedented levels of stability and precision. Troemner's calibration capabilities include:

- A NIST-traceable calibration system that applies pressure sensor, mathematical modeling, and data processing technologies
- A mass flow measurement accuracy of +0.2% of reading over its entire range of 2 SCCM to 100 SLPM. Information available for larger flow rates
- Laboratory is ISO/IEC 17025 compliant; application for NVLAP accreditation has been made

### Broad selection of flowmeter services

- Services include: repair, resizing, calibration and certification services for a wide variety of types and brands of gas mass flowmeters and flow controllers
- Our mass flow personnel are factory trained and authorized by a market-leading manufacturer of gas mass flow meters and flow controllers
- Three standard levels of service as well as custom services
- Calibration management program



Laminar flow method

### FLOWMETER SERVICES

	UltraClass	Traceable	Verification
Highly trained technicians	✓	✓	✓
Controlled environment	✓	✓	✓
NIST-traceable calibration	✓	✓	✓
Turn-around time	Less than 2 weeks	Less than 2 weeks	Less than 2 weeks
Expedited service available	✓	✓	✓
Visual inspection	✓	✓	✓
Helium leak tested	✓	✓	✓
"As found" 7 point data	✓		✓
Disassembled and cleaned	✓	✓	
Seals and O-rings replaced	✓		
Most repair parts & labor	✓		
Pressure tested	✓		
"As left" 7 point data	✓	✓	

# TROEMNER

Raising the Standard since 1838

A world leader in the measurement and calibration industry, Troemner provides an extensive selection of precision weights, mass standards and calibration services. For over 160 years Troemner has provided precision products and services of the highest quality.

## State of the art technology

Troemner maintains one of the largest and most advanced independent metrology laboratories in the world utilizing the latest calibration equipment with a highly trained staff of metrologists and technicians.

## Commitment to the highest standards

Third party accreditations by internationally recognized organizations provide regular unbiased assessments of Troemner's quality programs and technical capabilities. Troemner meets and maintains the most rigorous testing and manufacturing standards including ISO 9001, ISO/IEC 17025, ANSI/NCSL Z540 and has achieved accreditation in various disciplines from NIST/NVLAP and UKAS.

## Unsurpassed service

Troemner offers a wide range of standard and custom services and products to meet virtually any customer need or regulatory requirement.

## Additional precision products and calibration services from Troemner

### Pipette calibration

- Services include repair, calibration and certification of pipettes regardless of manufacturer.
- The only independent laboratory accredited by NIST/NVLAP for pipette calibrations.
- We can meet your most stringent requirements including: GLP, GMP, FDA, ISO, NCCLS, CAP and CLIA.

### Mass calibration services

- The only independent laboratory in the U.S. with NVLAP and UKAS accreditations for mass calibration.
- NVLAP accreditation for determinations for density and magnetic susceptibility.

### Precision weights and mass standards

- Largest selection of precision weights in standard configurations including: Analytical, OIML, Cast Iron and Brass.
- Custom weights are a Troemner specialty.

### Temperature calibration

- Services include fixed-point and comparison calibrations.
- Utilizes the latest equipment providing the lowest uncertainties in the market place.
- Laboratory is ISO/IEC 17025 compliant; application for NVLAP accreditation has been made.

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Coming soon ... Pressure and humidity calibration services

**TROEMNER**

201 Wolf Drive • PO Box 87 • Thorofare, NJ 08086-0087  
Phone: 800-249-5554 • Fax: 856-686-1601  
www.troemner.com • email: troemner@troemner.com

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