

Troemner Calibration Services – Pressure



Precision & Balance Matched Only By Nature.



Troemner's Pressure Calibration Laboratory utilizes the latest calibration equipment with reference standards directly traceable to the National Institute of Standards and Technology (NIST). Troemner also seeks the highest levels of accreditation, our laboratory is ISO/IEC 17025 compliant and has been accredited by NVLAP.

Facility and Equipment

Environmental conditions in the Laboratory are strictly monitored and controlled. All pressure calibration equipment used in Troemner's Pressure Calibration Laboratories is state-of-the-art with the highest precision possible. Calibration equipment includes a Piston Gage similar to those used in National Laboratories as a primary pressure standard.

Laboratory capabilities are 0 to 1000 psi with accuracy as low as 0.005% of reading.

Staff and Processes

Troemner's metrology staff and calibration technicians have extensive manufacturer training and experience in pressure calibrations. Troemner can offer standard and custom calibration services for a wide variety of pressure measuring devices. Types of pressure instruments serviced include Gages, Transducers, Calibrators, Monitors, Pressure Controllers and Deadweight Testers.

Pressure Calibration Services Include:

- **NIST traceable calibrations**
- **Laboratory is ISO/IEC 17025 compliant** and has been accredited by NVLAP.
- **Capabilities:** 0 psi to 1000 psi with accuracy as low as 0.005% of reading.
- **Types of instruments serviced include:** Gages, Transducers, Calibrators, Monitors, Pressure Controllers and Deadweight Testers.
- **Detailed certificate provided with your pressure measurement devices**
- **Fast turnaround time**

NVLAP Pressure Calibration Certificate –

A detailed, multi-page pressure certificate designed to meet all your ISO (Including ISO/IEC 17025), FDA, GMP, GLP, DOD, NCCLS, CLIA, ANSI/NCSS Z540-1, and nuclear requirements. Certificate includes "as found" and "as left" data for: Reference Pressure, Device Under Test Pressure, Absolute Error, and Tolerance. In addition, deadweight tester certificates include mass calibration data for the deadweights. Presently, calculating the effective area of a deadweight tester or piston gauge is a NIST traceable measurement, but is outside Troemner's scope of accreditation.



Hummingbird Help

Calibration Reminders: Troemner routinely sends out calibration reminders to assure your devices are monitored properly

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Four standard levels of service, as well as custom services are available. Below is a description of the standard Pressure services available from Troemner:

PRESSURE CALIBRATION SERVICES				
	Deadweight Testers	Level 1	Level 2	Level 3
Device Accuracy (% of Reading)		< ±0.05%	≥ ±0.05% < ±0.1%	≥ ±0.1%
ISO 17025 compliant	•	•	•	•
NIST Traceable	•	•	•	•
Uncertainty data	•	•	•	•
turnaround time	Less than 2 weeks	Less than 2 weeks	Less than 2 weeks	Less than 2 weeks
Expedited service available	•	•	•	•
"As found" and "as left" data	•	21 point *	16 Point **	7 Point ***
Adjustments & Cleaning as required	•	•	•	•
Determine effective area	•			
Determine mass of piston & weights	•			
Calibrate piston/cylinder base	(as required)			

* 21 point calibration includes the following % of full-scale or range data points: (0%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%, 90%, 80%, 70%, 60%, 50%, 40%, 30%, 20%, 10%, 0%)

** 16 point calibration includes the following % of full-scale data points: (0%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%, 80%, 60%, 40%, 20%, 0%)

*** 7-point calibration includes the following % of full-scale data points: (0%, 25%, 50%, 75%, 100%, 50%, 0%)

