



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

THE FREDERICKS COMPANY
2400 Philmont Ave
Huntingdon Valley, PA 19006
Carl Lee Phone: 215 947 2500

CALIBRATION

Valid To: October 31, 2025

Certificate Number: 7104.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Mechanical

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Pressure – Calibration of Vacuum Gauges	(1E1 to 1E3) torr	1.5 % - 3.6E-2 torr	Comparison method using spinning rotor gauge, ion gauge, or capacitance diaphragm gauge
	(1E-1 to 1E1) torr	1.3 % + 1.6E-3 torr	
	(1E-2 to 1E-1) torr	1.1 % + 2.2E-4 torr	
	(1E-3 to 1E-2) torr	1.9 % + 5.1E-4 torr	
	(1E-4 to 1E-3) torr	7.0 % + 3.6E-7 torr	
	(1E-5 to 1E-4) torr	7.3 % + 8.5E-8 torr	
(1E-6 to 1E-5) torr	7.6 % + 5.2E-8 torr		

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ In the statement of CMC, percentages are percentage of reading, unless otherwise indicated.



Accredited Laboratory

A2LA has accredited

THE FREDERICKS COMPANY

Huntingdon Valley, PA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of R205 – *Specific Requirements: Calibration Laboratory Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 April 2017).



Presented this 28th day of September 2023.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7104.01
Valid to October 31, 2025

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.