



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017
& ANSI/NCSL Z540-1-1994

COLORADO ENGINEERING EXPERIMENT STATION, INC.
54043 County Rd 37
Nunn, CO 80648
John Reiner Phone: 970-897-2711

CALIBRATION

Valid To: January 31, 2024

Certificate Number: 5717.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,5,6}:

I. Fluid Quantities

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Flow Meters –			
Compressible Gases	(0.0033 to 132) lb/min	0.12 %	Critical flow venturis
Water	(0.1 to 1950) gpm	0.10 %	Liquid flow system
Wet Gas			
Natural Gas	(10 to 1500) acfm	0.50 %	Wet gas test facility
Water	(0.005 to 25) lb/s	0.20 %	
Oil	(0.005 to 25) lb/s	0.20 %	

Satellite Location

COLORADO ENGINEERING EXPERIMENT STATION, INC.
 2365 240th Street,
 Garner, IA 50438
 John Reiner Phone: 970-897-2711

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Flow Meters ⁴ – Natural Gas	(450 to 900) acfh (>900 to 60 000) acfh (>60 000 to 1 500 000) acfh	0.44 % 0.23 % 0.18 %	Natural gas system

Satellite Location

COLORADO ENGINEERING EXPERIMENT STATION, INC.
 220 Bunyan Avenue,
 Berthoud, CO 80513
 John Reiner Phone: 970-897-2711

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Flow Meters – Compressible Gases	(0.0033 to 115) lb/min	0.11 %	Critical flow venturis

Satellite Location

COLORADO ENGINEERING EXPERIMENT STATION, INC.
 95 Chancellor Drive,
 Roselle, IL. 60172
 John Reiner Phone: 970-897-2711

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Flow Meters –			
Compressible Gases	(0.012 to 1.2) lb/min	0.28 %	Pluto - Critical flow venturis
	(>1.2 to 23.73) lb/min	0.25 %	
	(0.3 to 162) lb/min	0.25 %	Saturn - Critical flow venturis
	(1.8 to 4.8) lb/min	0.31 %	Jupiter - Critical flow venturis
	(>4.8 to 804) lb/min	0.25 %	
	(>804 to 1032) lb/min	0.29 %	

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 percentages of reading.

⁴ Up to 10 flow standards can be placed in parallel to achieve required flow rate.

⁵ This accreditation covers calibrations performed at the main laboratory and the following satellite laboratories listed above.

⁶ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

COLORADO ENGINEERING EXPERIMENT STATION, INC.

Nunn, CO

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 ANSI/NC SL Z540-1-1994 and 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 April 2017*).



Presented this 19th day of November 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5717.01
Valid to January 31, 2024

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