SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

US ARMY TMDE SUPPORT ACTIVITY DUGWAY
Building 4352, Dugway Proving Ground
Dugway, UT 84022
David Schaeffer Phone: 435 831 7440

CALIBRATION

Valid To: February 28, 2023 Certificate Number: 1115.05

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations[1, 6]:

I. Fluid Quantities

Parameter/Equipment	Range	CMC[2, 3, 5] (±)	Comments
Air Flowrate – Generate	(0.02 to 30) slm	0.6 %	DHI Molbloc/Molbox system

II. Mechanical

Parameter/Equipment	Range	CMC[2, 3, 5] (±)	Comments
Balances[4]	Up to 5 kg	4.1*R* mg	Class 1, 3, & 4 weights
Pressure – Measuring Equipment	(0 to 30) in H_2O	0.0038 in H_2O	Ruska 7250lp

III. Thermodynamics

Parameter/Equipment	Range	CMC[2, 5] (±)	Comments
Temperature – Measuring Equipment	(-60 to 110) °C	0.023 °C	Fluke 8508A with 162C SPRT. Fluke bath 7381
Relative Humidity – Measuring Equipment	(11 to 95) % RH	0.56 % RH	Thunder Scientific humidity generator T2500S

[1] This laboratory does not offer 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, the value is defined as the percentage of reading, and *R* is the numerical value of the resolution of the unit under test.

[4] Effects of test for non-repeatability, non-linearity, hysteresis, and environmental factors can cause uncertainties to be larger than the CMC for balances.

[5] The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.

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

Accredited Laboratory

A2LA has accredited

US ARMY TMDE SUPPORT ACTIVITY DUGWAY

Dugway, UT

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 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 6th day of January 2021.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1115.05
Valid to February 28, 2023

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