



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CROSS TECHNOLOGIES, INC  
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Knoxville, TN 37932  
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CALIBRATION

Valid To: December 31, 2024

Certificate Number: 1741.21

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1, 5</sup>:

I. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC <sup>2, 6</sup> (±)	Comments
DC Voltage – Measure <sup>3</sup>	Up to 6 V	0.0076 V	Fluke Molbox 1 + <sup>TM</sup> w/MFC option
DC Voltage – Generate <sup>3</sup>	Up to 6 V	0.0073 V	Fluke Molbox 1 + <sup>TM</sup> w/MFC option
DC Current – Measure <sup>3</sup>	(4 to 20) mA	0.025 mA	Fluke Molbox 1 + <sup>TM</sup> w/MFC option
DC Current – Generate <sup>3</sup>	(4.01 to 20) mA	0.025 mA	Fluke Molbox 1 + <sup>TM</sup> w/MFC option

## II. Fluid Quantities

Parameter/Equipment	Range	CMC <sup>2, 4</sup> (±)	Comments
Gas Flow Measuring Equipment – Air and N2			
Laminar Flow	(0.01 to 50) slpm (50 to 100) slpm	0.5 % 0.65 %	Fluke Molbox 1 + <sup>TM</sup> w/Molbloc Elements
Sonic Flow	(28 to 120) slpm	0.8 %	

<sup>1</sup> This laboratory offers commercial calibration services.

<sup>2</sup> 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.

<sup>3</sup> Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

<sup>4</sup> In the statement of CMC, percentages are to be read as percent of reading unless otherwise noted.

<sup>5</sup> This scope meets A2LA's *P112 Flexible Scope Policy*.

<sup>6</sup> The stated measured values are determined using the indicated instrument (see Comments). This capability is suitable for the calibration of the devices intended to measure or generate the measured value in the ranges indicated. CMCs are expressed as either a specific value that covers the full range or as a percent or fraction of the reading plus a fixed floor specification.



## Accredited Laboratory

A2LA has accredited

**CROSS TECHNOLOGIES, INC – KNOXVILLE**

Knoxville, TN

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 8<sup>th</sup> day of November 2022.

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

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1741.21  
Valid to December 31, 2024

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