



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

AALFA - KAL METROLOGY LABORATORY,  
DIVISION of AALBORG INSTRUMENTS & CONTROLS, INC.  
20 Corporate Dr.  
Orangeburg, NY 10962  
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CALIBRATION

Valid To: June 30, 2024

Certificate Number: 3989.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1,4</sup>:

I. Fluid Quantities

Parameter	Range	CMC <sup>2,3,5</sup> (±)	Comments
Volumetric Flow – Measuring Equipment	Up to 20 SCCM	0.18 %	DHI Molbox-1 (Air, He, Arg, CO <sub>2</sub> , O <sub>2</sub> , N <sub>2</sub> )
	(8 to 100) SCCM	0.18 %	
	(16 to 200) SCCM	0.18 %	
	(32 to 400) SCCM	0.18 %	
	(80 to 1000) SCCM	0.18 %	
	(160 to 2000) SCCM	0.18 %	
	(800 to 10 000) SCCM	0.18 %	
	(1600 to 20 000) SCCM	0.19 %	
(4000 to 50 000) SCCM	0.27 %		

<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> In the statement of CMC, percentages represent the percent of reading unless otherwise noted.

<sup>4</sup> This scope meets A2LA's *P112 Flexible Scope Policy*.

<sup>5</sup> 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.



## Accredited Laboratory

A2LA has accredited

**AALFA - KAL METROLOGY LABORATORY,  
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*Orangeburg, NY*

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/NCCL 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 21<sup>st</sup> day of March 2022.

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

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 3989.01  
Valid to June 30, 2024  
Revised May 21, 2024

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