CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Hamilton Associates Incorporated
DBA Air Techniques International
11403 Cronridge Drive
Owings Mills, MD 21117, USA

Fulfills the requirements of

ISO/IEC 17025:2017

and national standards

ANSI/NCSL Z540-1-1994 (R2002) and
ANSI/NCSL Z540.3-2006 (R2013)

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

Jason Stine, Vice President

Expiry Date: 08 May 2027

Certificate Number: AC-3384

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AND

ANSI/NCSL Z540-1-1994 (R2002)
ANSI/NCSL Z540.3-2006 (R2013)

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CALIBRATION

ISO/IEC 17025 Accreditation Granted: **08 May 2025**

Certificate Number: **AC-3384** Certificate Expiry Date: **08 May 2027**

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
DC Current Linearity – Generate ATI Photometer	$(0.95x10^{-5}$ to $1.05x10^{-5})$ A $(0.95x10^{-6}$ to $1.05x10^{-6})$ A $(0.95x10^{-7}$ to $1.05x10^{-7})$ A $(0.95x10^{-8}$ to $1.05x10^{-8})$ A $(0.95x10^{-9}$ to $1.05x10^{-9})$ A	0.07 % of reading 0.14 % of reading 0.16 % of reading 0.15 % of reading 0.32 % of reading	Current Simulating using Keithley 6620

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Liquid Flow (Air) ATI photometer	(26.9 to 29.7) ALPM	1.0% of reading	Direct Comparison to Alicat MWB-50SLPM-D/GAS

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Aerosol Response (PAO-4) ATI photometer	(90 to 110) µg/L	2.3 % of reading	Comparison to Gravimetric Method using Electronic Balance, ASTM Class 0 weights ATI Calibra™ 800, ATI Calibra™ PGM, and ATI Calibra™ Precision Photometer
Linearity (Aerosol PAO-4) ATI photometer	(16 to 24) µg/L (0.42 to 0.78) µg/L	4.4 % of reading 9.8 % of reading	Direct Comparison Concentration to the Reference Standard ATI Calibra™ 800, ATI Calibra™ PGM, and ATI Calibra™ Precision Photometer

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.

Jason Stine, Vice President

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