CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Hamilton Associates Incorporated
DBA Air Techniques International
4 Campus Five, Letchworth Business Park
Letchworth Garden City
Hertfordshire, SG6 2jF, UK

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-3384.01

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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4 Campus Five, Letchworth Business Park, Letchworth Garden City
Hertfordshire, SG6 2JF, UK

Rory Hulley 0146 2676446
rhulley@ATItest.com

Richard Sheats 410-363-9696
rsheats@ATItest.com www.ATItest.com

CALIBRATION

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

Certificate Number: **AC-3384.01** Certificate Expiry Date: **08 May 2027**

Electrical – DC/Low Frequency **ATI UK**

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	0.03 % of reading 0.76 % of reading 0.18 % of reading 0.1 % of reading 0.21 % 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	2.8% 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	2.6 % 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	4.8 % of reading 11 % 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

1899 L Street NW, Suite 1100-A, Washington, DC 20036
414-501-5494
www.anab.org