CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Advanced Industrial Measurement Systems (AIMS)

2580 Kohnle Drive
Miamisburg, OH 45342

Fulfills the requirements of

ISO/IEC 17025:2017

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: 25 May 2027

Certificate Number: AC-2475

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

Advanced Industrial Measurement Systems (AIMS)

2580 Kohnle Drive
Miamisburg, OH 45342
Steve Cichanowicz
937-320-4930

CALIBRATION

Valid to: **May 25, 2027** Certificate Number: **AC-2475**

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) [2]	Reference Standard, Method, and/or Equipment
CMM Linear Accuracy [1]	(0 to 1 000) mm	(0.11 + 3.1*L*) µm	ASME B89.4.10360.2 Gage Blocks
CMM Linear Accuracy [1]	(0 to 10) m	(0.79 + 0.5*L*) µm	ASME B89.4.10360.2 Laser interferometer
CMM Volumetric Accuracy [1]	(0 to 900) mm	2 µm	ASME B89.4.1b:2001 Ball-Bar
CMM Repeatability [1]	(19 to 50) mm	0.9 µm	ASME B89.4.1b Datum Sphere
Optical Comparators[1,2] X-Y Length Magnification	 Up to 12 in (12 to 24) in Up to 304.8 mm (304.8 to 609.6) mm 5x to 100x	 (67 + 1*X*) µin (87 + 1.3*X*) µin (1.7 + 1.0*L*) µm (2.2 + 1.3*L*) µm 2.2 µm	Comparison to Glass Scales

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.
2. L = Length in meters, X=Length in inches.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-2475.

Jason Stine, Vice President