CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Antibus Scales & Systems, Inc.
1919 Research Drive
Fort Wayne, IN 46808

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: 11 May 2028

Certificate Number: L2253

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

Antibus Scales & Systems, Inc.

1919 Research Drive
Fort Wayne, IN 46808

Lynn Billiard 260-432-3591

CALIBRATION

ISO/IEC 17025 Accreditation Granted: **08 May 2026**

Certificate Number: **L2253** Certificate Expiry Date: **11 May 2028**

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Electrical Simulation of Thermocouple Indicating Devices	Type K (-195 to 1 260) °C Type J (0 to 760) °C Type T (-195 to 370) °C Types R & S (300 to 1 480) °C	0.87 °C 0.87 °C 0.87 °C 1.1 °C	Comparison to Fluke Process Calibrator

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Calipers	(0 to 12) in	820 µin	Comparison to Gage Blocks
Micrometer	(0 to 6) in	820 µin	Comparison to Gage Blocks
Height Gage	(0 to 12) in	820 µin	Comparison to Gage Blocks

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Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Force Gages & Cells: UUTs with accuracies <= 0.1% [1,6]	(0 to 10 000) lbf	1d + 0.033% load	Comparison to Class F/6 Weights
Force Gages & Cells: UUTs with accuracies > 0.1% [1,6]	(0 to 30 000) lbf	1d + 0.10% load	Comparison to Class F/6 Weights
Force – Tension and Compression [1,6]	(0 to 100 000) lbf	1d + 0.20% load	Comparison to Load Cells
Class F/6 and lower Mass Standards	20 lb 25 lb 50 lb 500 lb 1 000 lb 10 kg 20 kg 25 kg	0.000 42 lb 0.000 52 lb 0.001 0 lb 0.011 lb 0.021 lb 0.23 g 0.41 g 0.51 g	Modified Substitution
Lab Balances [1,6] (Five & Six Place Balances) (Four Place and Class 1 Equivalent Balances) (Class 2 & High Precision Scales)	(0 to 500) g (0 to 5 300) g (0 to 5 300) g	1d + 0.004 1% of load 1d + 0.000 3% of load 0.6d + 0.000 07% of load	Class 1 Weights utilized for the Calibration of Weighing Systems
Lab Balances and High Precision Scales [1,6]	(0 to 35) kg	1d + 0.001 2% of load	Class 2 & 3 Weights utilized for the Calibration of Weighing Systems
Lab Balances and High Precision Scales [1,6]	(0 to 150) kg	1d + 0.000 7% of load	Comparison to Class 1 and Class 2 Weights with Substitution to range of use
High Resolution Unmarked Scales [1,6]	(0 to 5 000) kg (0 to 50 000) lb	1d + 0.012% of load 1d + 0.012% of load	Comparison to Class F,6 Weights with Substitution to range of use

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Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Industrial and Commercial Scales [1,3,6]	(0 to 5 000) kg (0 to 200 000) lb	1d + 0.004% of load 1d + 0.004% of load	Comparison to Class F,6 Weights with Substitution to range of use
Torque Analyzers – Fixed Points	(1 to 10) ozf·in (10 to 50) ozf·in (4 to 50) lbf·in (30 to 400) lbf·in (80 to 1 000) lbf·in (20 to 250) lbf·ft (60 to 600) lbf·ft (200 to 2 000) lbf-ft	0.096 % of reading 0.061 % of reading 0.076 % of reading 0.062 % of reading 0.071 % of reading 0.062 % of reading 0.070 % of reading 0.074 % of reading	Comparison to Torque Arm and Class F/6 Weights
Torque Wrench With Accuracies of 0 to 1.5% With Accuracies > 1.5%	 (1 ozf·in to 2 000 lbf·ft) (1 ozf·in to 2 000 lbf·ft)	 1.2 % of reading 2.6 % of reading	Comparison to Torque Analyzer

Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Temperature Chamber [1] (ovens/freezers)	(-195 to 1 260) °C	3.1 °C	Comparison to Fluke Series Process Calibrator

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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. High Resolution Unmarked Scales include high resolution scales not complying with the accuracy class parameters of Table 3 of NIST Handbook 44.
3. Industrial Scales include but are not limited to lab balances, bench scales, floor scales, tank and hopper scales, and vehicle scales.
4. Antibus Scales & Systems, Inc has resident technicians located in Bowling Green, OH.
5. This scope is formatted as part of a single document including Certificate of Accreditation No. L2253.
6. When the uncertainty of measurement is significantly impacted by the UUT's resolution, then the uncertainty may be expressed as a formula using the UUT's resolution, represented by "d" above.

Jason Stine, Vice President

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