CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Gerhart Systems and Controls Corp.
603 Washington Avenue
South Amboy, NJ 08879

Fulfills the requirements of

ISO/IEC 17025:2017

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

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: 01 October 2026
Certificate Number: AC-1345

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)

Gerhart Systems and Controls Corp.

603 Washington Avenue
South Amboy, NJ 08879
Stuart Cattell (President), Carol Rendfrey (Quality Manager), John J. Smith (Lab Manager)
732-525-1000

CALIBRATION

Valid to: **October 1, 2026** Certificate Number: **AC-1345**

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Mass Artifacts – Laboratory and Test	5 000 g 3 000 g 2 000 g 1 000 g 500 g 300 g 200 g 100 g 50 g 30 g 20 g 10 g 5 g 3 g 2 g 1 g 500 mg 300 mg 200 mg 100 mg 50 mg 30 mg 20 mg 10 mg	1 mg 0.41 mg 0.39 mg 0.12 mg 0.24 mg 29 µg 26 µg 19 µg 15 µg 14 µg 5.9 µg 5.9 µg 3.3 µg 1.9 µg 1.5 µg 1.3 µg 0.96 µg 1.2 µg 0.78 µg 0.91 µg 0.78 µg 1 µg 0.63 µg 0.76 µg	ASTM E617 Class 1 Weights, OIML Class E_1 Weights, Sartorius CCE5004 Balance, Sartorius CC310 Balance, Sartorius MC21S Micro Balance, Sartorius CCE6 Mass Comparator

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Mass Artifacts – Laboratory and Test	5 mg 3 mg 2 mg 1 mg	0.71 µg 0.88 µg 0.63 µg 0.63 µg	ASTM E617 Class 1 Weights, OIML Class E_1 Weights, Sartorius CCE6 Mass Comparator
Mass Artifacts – NIST Class F Commercial Test Weights	25 kg 20 kg 10 kg 50 lb 25 lb 20 lb 10 lb 5 lb 1 lb	10 mg 10 mg 3.1 mg 2.7 mg 3.1 mg 2.7 mg 0.76 mg 0.55 mg 0.12 mg	ASTM E617 Class 1 Weights, ASTM E617 Class 2 Weights, Sartorius CCE40K3 Balance, Sartorius CCE5004 Balance
Laboratory Balances [1] (0.001 mg resolution) (0.01 mg resolution) (0.1 mg resolution)	 Up to 5 g Up to 200 g Up to 500 g	 3.5 µg 26 µg 70 µg	ASTM E617 Class 1 Weights, internal procedure WI 5.4 and NIST Handbook 44 utilized in the calibration of the weighing system.
Top Loading Balances [1] (0.001 g resolution) (0.01 g resolution) (0.1 g resolution)	 Up to 1 000 g Up to 5 000 g Up to 20 000 g	 0.2 mg 1.4 mg 0.12 g	ASTM E617 Class 2 Weights, internal procedure WI 5.4 and NIST Handbook 44 utilized in the calibration of the weighing system.
Industrial Scales [1] (0.01 lb resolution) (0.1 lb resolution) (0.5 lb resolution) (1 lb resolution) (2 lb resolution)	 Up to 500 lb Up to 500 lb Up to 3 000 lb Up to 5 000 lb Up to 10 000 lb	 0.006 lb 0.06 lb 0.4 lb 0.6 lb 1.4 lb	NIST Class F Weights and NIST Handbook 44 utilized in the calibration of the weighing system.

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Heavy Capacity Scales [1] (5 lb resolution) (10 lb resolution) (20 lb resolution)	 Up to 30 000 lb Up to 90 000 lb Up to 200 000 lb	 2.9 lb 5.9 lb 11.7 lb	NIST Class F Weights and NIST Handbook 44 utilized in the calibration of the weighing system.
Pressure Measuring Devices	(150 to 1 500) psig (1 500 to 15 000) psig	0.008 3 % of reading + 0.03 psi 0.008 4 % of reading + 0.36 psi	Ametek T-150 Deadweight Tester

Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Temperature – Source (Thermometers, Probes, etc.)	(-20 to 100) °C (20 to 350) °C	0.12 °C 0.12 °C	Hart Temperature Probe, Bath Hart Temperature Probe, Dry-block

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. Gerhart has resident technicians in Painted Post, NY; Tatamy, PA; Newark, DE; and Pennsauken, NJ.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1345.

Jason Stine, Vice President