



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 2028
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

ISO/IEC 17025 Accreditation Granted: **18 September 2026**

Certificate Number: **AC-1345**

Certificate Expiry Date: **01 October 2028**

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	1 mg	ASTM E617 Class 1 Weights, OIML Class E1 Weights, Sartorius CCE5004 Balance, Sartorius CC310 Balance, Sartorius MC21S Micro Balance, Sartorius CCE6 Mass Comparator; Internal Procedure WI 5.4M, NIST 6969 SOP 4.
	3 000 g	0.41 mg	
	2 000 g	0.39 mg	
	1 000 g	0.12 mg	
	500 g	0.24 mg	
	300 g	29 µg	
	200 g	26 µg	
	100 g	19 µg	
	50 g	15 µg	
	30 g	14 µg	
	20 g	5.9 µg	
	10 g	5.9 µg	
	5 g	3.3 µg	
	3 g	1.9 µg	
	2 g	1.5 µg	
	1 g	1.3 µg	

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Mass Artifacts – Laboratory and Test	500 mg 300 mg 200 mg 100 mg 50 mg 30 mg 20 mg 10 mg	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 E1 Weights, Sartorius CCE5004 Balance, Sartorius CC310 Balance, Sartorius MC21S Micro Balance, Sartorius CCE6 Mass Comparator; Internal Procedure WI 5.4M, NIST 6969 SOP 4.
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 E1 Weights, Sartorius CCE6 Mass Comparator; Internal Procedure WI 5.4M, NIST IR 5672 SOP 5.
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; Internal Procedure WI 5.4M, NIST 6969 SOP 7 and 8.
Laboratory Balances ¹ (0.001 mg resolution)	Up to 5 g	3.5 µg	ASTM E617 Class 1 Weights, internal procedure WI 5.4B and NIST Handbook 44 utilized in the calibration of the weighing system.
(0.01 mg resolution)	Up to 200 g	26 µg	
(0.1 mg resolution)	Up to 500 g	70 µg	

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Top Loading Balances ¹ (0.001 g resolution)	Up to 1 000 g	0.2 mg	ASTM E617 Class 2 Weights, internal procedure WI 5.4B and NIST Handbook 44 utilized in the calibration of the weighing system.
(0.01 g resolution)	Up to 5 000 g	1.4 mg	
(0.1 g resolution)	Up to 20 000 g	0.12 g	
Industrial Scales ¹ (0.01 lb resolution)	Up to 500 lb	0.006 lb	NIST Class F Weights, internal procedure WI 5.4S, and NIST HB 44 utilized in the calibration of the weighing system.
(0.1 lb resolution)	Up to 500 lb	0.06 lb	
(0.5 lb resolution)	Up to 3 000 lb	0.4 lb	
(1 lb resolution)	Up to 5 000 lb	0.6 lb	
(2 lb resolution)	Up to 10 000 lb	1.4 lb	
Heavy Capacity Scales ¹ (5 lb resolution)	Up to 30 000 lb	2.9 lb	NIST Class F Weights, internal procedure WI 5.4S or WI 5.4V, and NIST HB 44 utilized in the calibration of the weighing system.
(10 lb resolution)	Up to 90 000 lb	5.9 lb	
(20 lb resolution)	Up to 200 000 lb	11.7 lb	

Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Temperature – Source (Thermometers, Probes, etc.)	(-20 to 100) °C	0.12 °C	Hart Temperature Probe, Bath
	(20 to 300) °C	0.12 °C	Hart Temperature Probe, Dry-block; Internal procedure WI 5.4T, ASTM E77-14.

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.



Jason Stine, Vice President

