



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Gerhart Scale Corporation

603 Washington Ave.

South Amboy, NJ 08879

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1345

Certificate Number


ANAB Approval

Certificate Valid: 09/26/2016-10/01/2018
Version No. 003 Issued: 09/26/2016



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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 January 2009).



ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 & ANSI/NCSL Z540-1-1994

Gerhart Scale Corporation

603 Washington Ave. South Amboy, NJ 08879

Christopher Jones (Service Manager), John J. Smith (Service Coordinator), Stuart Cattell (President)

Phone: 732-525-1000 www.gerhart.com

Satellite sites:

Allentown, PA – Painted Post, NY-- Orange, NJ-- Pennsauken, NJ—Newark, DE

CALIBRATION

Valid to: October 1, 2018

Certificate Number: AC-1345

I. Mechanical

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)	
Laboratory & Test ⁶ Weights	5 000 g	2.50 mg	ASTM Class 1 Weights	NIST IR 6969 ² SOPs 4, 7, 8 NIST IR 5672 ² SOP 5	
	3 000 g	1.12 mg	OIML Class E ₁ Weights		
	2 000 g	1.01 mg			
	1 000 g	0.26 mg			
	500 g	0.28 mg			
	300 g	0.029 mg			
	200 g	0.028 mg			Sartorius CCE6
	100 g	0.015 mg			
	50 g	0.013 mg			
	30 g	0.014 mg			Sartorius MC21S
	20 g	0.006 mg			
	10 g	0.005 mg			
	5 g	0.0030 mg	Sartorius CC310		
	3 g	0.0039 mg			
	2 g	0.0030 mg			
	1 g	0.0025 mg	Sartorius CCE5004		
	500 mg	0.0009 mg			
	300 mg	0.0013 mg			
	200 mg	0.0009 mg	VaisalaPTU200ABA2A A3DB(HMP45D)		
	100 mg	0.0009 mg			
50 mg	0.0009 mg				
30 mg	0.0013 mg				
20 mg	0.0009 mg				
10 mg	0.0009 mg				
5 mg	0.0009 mg				
3 mg	0.0013 mg				
2 mg	0.0009 mg				
1 mg	0.0009 mg				



PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Commercial Test Weights NIST Class F ⁶	25 kg 20 kg 10 kg 50 lb 25 lb 20 lb 10 lb 5 lb 1 lb	0.12 g 0.12 g 0.12 g 0.12 g 0.12 g 0.12 g 0.0007 g 0.00014 g 0.00014 g	ASTM Class 1 Weights ASTM Class 2 Weights Sartorius isi20 Sartorius CCE5004 VaisalaPTU200ABA2A A3DB(HMP45D)	NIST IR 6969 ² SOPs 7 & 8
Laboratory Balances	Up to 300 g	0.65 mg	ASTM Class 1 Weights	ASTM E319-85; ² ASTM E898-88 ² USP/41 ²
Top Loading Balances	Up to 20 000 g	2.28 mg	ASTM Class 2 Weights	ASTM E898-88 ² USP/41 ²
Industrial Scales	Up to 500 lb (500 to 3 000) lb (3 000 to 10 000) lb	0.0057 lb 0.017 lb 1.16 lb	NIST Class F Cast Iron Weights	Handbook 44 ²
Heavy Capacity Scales	(10 000 to 27 000) lb	2.7 lb		
Pressure ⁶	(150 to 1500) psi (1500 to 15 000) psi	(0.08 + 0.06 % of rdg) psi (0.17 + 0.13 % of rdg) psi	Amtek T-150 Deadweight Tester	SV.06.06 ²

II. THERMODYNAMIC

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Temperature ⁶	(-20 to 100) °C (20 to 350) °C	0.12 °C 0.12 °C	Hart Temperature Probe and Bath Hart Temperature Probe and Dri-Block	SV.05.02 ²

Notes:

1. Calibration and Measurement Capabilities (CMC) (Expanded Uncertainties) are based on approximately a 95% confidence interval, using a coverage of $k=2$.
2. Up to date method revisions used.
3. This scope also covers calibrations done from the following satellite sites:
 - a. 390 Victory Highway, Painted Post, NY 14870 – POC: Kevin Healy – (607) 962-4667
 - b. 754 Roble Road, Allentown, PA 18109 – POC: Pete Fienemann – (610) 264-2800
 - c. 38 Albe Drive, Suite 8, Newark Delaware 19702- POC: Carol Rendfrey (856)-488-7575
 - d. 731 Hylton Road, Pennsauken, NJ POC: Carol Rendfrey (856)-488-7575
 - e. 50 South Center Street, unit 13, Orange, NJ 07050- POC: Carol Rendfrey (856)-488-7575
4. Main lab and Satellite locations offer in-laboratory calibrations as well as on-site calibrations at customer-designated locations. The uncertainty associated when calibrating a balance/scale is dependent on local conditions, such as the resolution of the unit being calibrated and the environment in which the balance/scale is operating. The CMC listed here represents the best uncertainty for a balance/scale which the organization typically calibrates in its laboratory. 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.
5. This scope is formatted as part of a single document including the Certificate of Accreditation No. AC-1345.
6. These Parameters are only calibrated in main lab - the South Amboy, NJ location.



Vice President

