



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

THE SCALE PEOPLE, INC., DBA THE LAB PEOPLE INC.
9693-C Gerwig Lane
Columbia, MD 21046
Amanda Beard Phone: 410 309 5880

CALIBRATION

Valid To: December 31, 2026

Certificate Number: 1452.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with A2LA's Calibration Program Requirements), accreditation is granted to this laboratory at the location listed above as well as the one satellite laboratory location listed below^{1, 4:}

I. Chemical

Parameter/Equipment	Range	CMC ^{2, 5} (±)	Comments
CO ₂ ³ – Measure	(0 to 2.5) % CO ₂ (2.6 to 5) % CO ₂ (5.1 to 20) % CO ₂	0.24 % CO ₂ 0.25 % CO ₂ 0.27 % CO ₂	Diamond Scientific Viasensor G100-010
O ₂ ³ – Measure	(0 to 5) % O ₂ (5.1 to 20) % O ₂	0.31 % O ₂ 0.31 % O ₂	Diamond Scientific Viasensor G100-010

II. Dimensional

Parameter/Equipment	Range	CMC ^{2, 5} (±)	Comments
Distance ³ – Measure	Up to 6 in	0.002 in	Height gauge or ruler

III. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments	
Analytical Balances ³	1 mg	0.0073 mg	E2 weights & Class 1 weights	
	2 mg	0.0073 mg		
	5 mg	0.0073 mg		
	10 mg	0.0095 mg		
	20 mg	0.012 mg		
	50 mg	0.012 mg		
	100 mg	0.012 mg		
	200 mg	0.012 mg		
	500 mg	0.012 mg		
	700 mg	0.017 mg		
	1 g	0.039 mg		E2 weights & class 1 weights
	2 g	0.043 mg		
	2.1 g	0.043 mg		
	3 g	0.043 mg		
	5 g	0.040 mg		
	6 g	0.043 mg		
	7 g	0.056 mg		
	10 g	0.058 mg		
	30 g	0.093 mg		
	50 g	0.14 mg		
	100 g	0.29 mg		
	150 g	0.32 mg		
	200 g	0.58 mg		
	230 g	0.61 mg		
	250 g	0.60 mg		
	400 g	1.3 mg		
	500 g	1.4 mg		

Parameter/Equipment	Range	CMC ² (±)	Comments
Top Loader Balances ³	100 g 200 g 500 g 620 g 700 g 1000 g 1500 g 1700 g 2000 g 2500 g 3000 g 3200 g 4000 g 5000 g 6000 g 7500 g 10 000 g 12 000 g 16 000 g 20 000 g 25 000 g 30 000 g 34 000 g 35 000 g 40 000 g 50 000 g 60 000 g 64 kg 150 kg 300 kg	2.2 mg 2.4 mg 3.6 mg 3.6 mg 3.8 mg 6.3 mg 6.7 mg 7.0 mg 24 mg 24 mg 25 mg 0.11 g 27 mg 21 mg 21 mg 0.03 g 0.22 g 0.21 g 0.23 g 0.27 g 0.28 g 0.28 g 0.28 g 0.28 g 0.25 g 0.34 g 0.30 g 0.30 g 16 g 24 g	Class 2, class E2, or class F weights

Parameter/Equipment	Range	CMC ^{2,5} (±)	Comments
Torque ³ – Measuring Equipment	1.78 lbf·in 10 lbf·in 100 lbf·in 800 lbf·ft	0.0071 lbf·in 0.012 lbf·in 0.12 lbf·in 0.98 lbf·ft	Torque calibration system
Force Measurement Equipment ³ – Tension & Compression	250 gf 2 lbf 10 lbf 25 lbf 50 lbf 100 lbf 200 lbf 500 lbf 1000 lbf	0.12 gf 0.0012 lbf 0.0025 lbf 0.011 lbf 0.023 lbf 0.045 lbf 0.11 lbf 0.23 lbf 0.45 lbf	Standard weights Load cells or standard weights
Scales ³	1 lb 2 lb 5 lb 7 lb 10 lb 15 lb 20 lb 25 lb 50 lb 75 lb 100 lb 150 lb 200 lb 250 lb 500 lb 700 lb 1000 lb 1500 lb 2000 lb 2500 lb 5000 lb 7500 lb 10 000 lb 20 000 lb 50 000 lb	0.000 29 lb 0.000 50 lb 0.0013 lb 0.0011 lb 0.0033 lb 0.0033 lb 0.0050 lb 0.011 lb 0.012 lb 0.020 lb 0.023 lb 0.022 lb 0.042 lb 0.045 lb 0.13 lb 0.10 lb 0.25 lb 0.24 lb 0.50 lb 0.49 lb 1.3 lb 1.3 lb 2.5 lb 1.4 lb 11 lb	Class F weights

Parameter/Equipment	Range	CMC ² (±)	Comments
Scales ³ (cont)	10 kg 20 kg 25 kg 50 kg 60 kg 75 kg 80 kg 90 kg 100 kg 150 kg 200 kg 250 kg 270 kg 300 kg 400 kg 450 kg 500 kg 540 kg 600 kg 700 kg 720 kg 750 kg 800 kg 810 kg 900 kg 1000 kg 1250 kg 1350 kg 1500 kg 1700 kg 2000 kg 2500 kg	0.0024 kg 0.0031 kg 0.0036 kg 0.0051 kg 0.011 kg 0.011 kg 0.011 kg 0.011 kg 0.011 kg 0.021 kg 0.021 kg 0.021 kg 0.021 kg 0.042 kg 0.042 kg 0.042 kg 0.042 kg 0.042 kg 0.10 kg 0.10 kg 0.10 kg 0.10 kg 0.10 kg 0.10 kg 0.10 kg 0.10 kg 0.10 kg 0.10 kg 0.21 kg 0.21 kg 0.21 kg 0.21 kg 0.21 kg	Class F Weights
Pipettes ³	(0.1 to 1) µL (1 to 50) µL (50 to 100) µL (100 to 200) µL (200 to 500) µL (500 to 1250) µL (1250 to 2500) µL (2500 to 5000) µL (5000 to 12 500) µL (12 500 to 30 000) µL (30 000 to 50 000) µL (50 000 to 100 000) µL	0.032 µL 0.093 µL 0.29 µL 0.41 µL 0.45 µL 0.64 µL 1.2 µL 2.9 µL 4.9 µL 7.3 µL 8.4 µL 16 µL	Gravimetric method

Parameter/Equipment	Range	CMC ² (±)	Comments
Load Cell			
Tension	(250 to 1500) lbf (>1500 to 5000) lbf (>5000 to 25 000) lbf (>25 000 to 50 000) lbf (>50 000 to 100 000) lbf	6 lbf 14 lbf 36 lbf 78 lbf 130 lbf	Load cell
Compression	(250 to 1500) lbf (>1500 to 5000) lbf (>5000 to 25 000) lbf (>25 000 to 50 000) lbf (>50 000 to 100 000) lbf	6 lbf 14 lbf 36 lbf 78 lbf 130 lbf	Load cell
Mass, Fixed Points	226.796 g (8 oz) 453.592 g (1 lb) 907.185 g (2 lb) 2267.962 g (5 lb) 4535.924 g (10 lb) 9071.85 g (20 lb) 11 339.809 g (25 lb) 22 679.619 g (50 lb) 1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg 25 kg	0.22 mg 0.26 mg 0.37 mg 1.0 mg 1.7 mg 100 mg 32 mg 62 mg 0.0023 mg 0.0023 mg 0.0023 mg 0.0024 mg 0.0023 mg 0.011 mg 0.0029 mg 0.0029 mg 0.0029 mg 0.0045 mg 0.0045 mg 0.0061 mg 0.013 mg 0.016 mg 0.023 mg 0.047 mg 0.22 mg 0.27 mg 0.38 mg 0.68 mg 2.8 mg 3.9 mg 9.9 mg 10 mg	Modified substitution

Parameter/Equipment	Range	CMC ² (±)	Comments
Mass, Fixed Points	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 15 kg 20 kg 25 kg	0.0014 mg 0.0015 mg 0.0014 mg 0.0012 mg 0.0014 mg 0.0013 mg 0.0014 mg 0.0013 mg 0.0017 mg 0.0028 mg 0.0028 mg 0.0039 mg 0.011 mg 0.0092 mg 0.017 mg 0.032 mg 0.058 mg 0.22 mg 0.28 mg 0.50 mg 1.1 mg 2.9 mg 3.3 mg 6.1 mg 7.0 mg	Double substitution
Mass, Fixed Points	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g	0.0014 mg 0.0015 mg 0.0014 mg 0.0012 mg 0.0014 mg 0.0013 mg 0.0014 mg 0.0013 mg 0.0017 mg 0.0028 mg 0.0028 mg 0.0039 mg 0.011 mg 0.0092 mg 0.017 mg 0.032 mg 0.058 mg	Triple substitution

Parameter/Equipment	Range	CMC ^{2, 5} (±)	Comments
Mass, Fixed Points (cont)	500 g 1 kg 2 kg 5 kg 10 kg 15 kg 20 kg 25 kg	0.22 mg 0.28 mg 0.50 mg 1.1 mg 2.9 mg 3.3 mg 6.1 mg 7.0 mg	Triple substitution
RPM ³ (Non-Contact) – Measure	(0.5 to 60) RPM (61 to 600) RPM (601 to 10 000) RPM (10 001 to 14 999) RPM (15 000 to 99 999) RPM (100 000 to 200 000) RPM	0.0070 RPM 0.17 RPM 2.8 RPM 5.9 RPM 28 RPM 90 RPM	Monarch Tachometer 6125-010

IV. Thermodynamics

Parameter/Equipment	Range	CMC ^{2, 5} (±)	Comments
Relative Humidity ³ – Measure	(0 to 90) % RH (90 to 100) % RH	2.1 % RH 3.5 % RH	Vaisala HM40 meter with HMP113; temperature range (0 to 40) °C
Temperature ³ – Measure	(-80 to 0) °C (>0 to 100) °C (>100 to 140) °C (>140 to 190) °C (>190 to 250) °C (>250 to 538) °C	0.38 °C 0.27 °C 0.27 °C 2.6 °C 2.6 °C 2.7 °C	Fluke 52 II Type K Probe, Kaye Valprobe RT

V. Time & Frequency

Parameter/Equipment	Range	CMC ^{2, 5} (±)	Comments
Time ³ – Measure	(0 to 7200) sec	0.084 sec	Stopwatch

SATELLITE FACILITY

THE SCALE PEOPLE, INC., DBA THE LAB PEOPLE INC.
 708-H Gum Rock Court
 Newport News, Virginia 23606
 Amanda Beard Phone: 410 309 5880

I. Dimensional

Parameter/Equipment	Range	CMC ^{2,5} (±)	Comments
Distance ³ – Measure	Up to 6 in	0.002 in	Height gauge or ruler

II. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments
Analytical Balances ³	1 mg	0.0073 mg	E2 weights & class 1 weights
	2 mg	0.0073 mg	
	5 mg	0.0073 mg	
	10 mg	0.0095 mg	
	20 mg	0.012 mg	
	50 mg	0.012 mg	
	100 mg	0.012 mg	
	200 mg	0.012 mg	
	500 mg	0.012 mg	
	700 mg	0.017 mg	
	1 g	0.039 mg	
	2 g	0.043 mg	
	2.1 g	0.043 mg	
	3 g	0.043 mg	
	5 g	0.040 mg	
	6 g	0.043 mg	
	7 g	0.056 mg	
10 g	0.058 mg		
30 g	0.093 mg		
50 g	0.14 mg		
100 g	0.29 mg		

Parameter/Equipment	Range	CMC ² (±)	Comments
Analytical Balances ³ (cont)	150 g 200 g 230 g 250 g 400 g 500 g	0.32 mg 0.58 mg 0.61 mg 0.60 mg 1.3 mg 1.4 mg	E2 weights & class 1 weights
Top Loader Balances ³	100 g 200 g 500 g 620 g 700 g 1000 g 1500 g 1700 g 2000 g 2500 g 3000 g 3200 g 4000 g 5000 g 6000 g 7500 g 10 000 g 12 000 g 16 000 g 20 000 g 25 000 g 30 000 g 34 000 g 35 000 g 40 000 g 50 000 g 60 000 g 64 kg 150 kg 300 kg	2.2 mg 2.4 mg 3.6 mg 3.6 mg 3.8 mg 6.3 mg 6.7 mg 7.0 mg 24 mg 24 mg 25 mg 0.11 g 27 mg 21 mg 21 mg 0.03 g 0.22 g 0.21 g 0.23 g 0.27 g 0.28 g 0.28 g 0.28 g 0.28 g 0.25 g 0.34 g 0.30 g 0.30 g 16 g 24 g	Class 2, class E2 or class F weights

Parameter/Equipment	Range	CMC ^{2,5} (±)	Comments
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Force Measurement Equipment ³ – Tension & Compression	250 gf 2 lbf 10 lbf 25 lbf 50 lbf 100 lbf 200 lbf 500 lbf 1000 lbf	0.12 gf 0.0012 lbf 0.0025 lbf 0.011 lbf 0.023 lbf 0.045 lbf 0.11 lbf 0.23 lbf 0.45 lbf	Standard weights Load cells or standard weights
Scales ³	1 lb 2 lb 5 lb 7 lb 10 lb 15 lb 20 lb 25 lb 50 lb 75 lb 100 lb 150 lb 200 lb 250 lb 500 lb 700 lb 1000 lb 1500 lb 2000 lb 2500 lb 5000 lb 7500 lb 10 000 lb 20 000 lb 50 000 lb	0.000 29 lb 0.000 50 lb 0.0013 lb 0.0011 lb 0.0033 lb 0.0033 lb 0.0050 lb 0.011 lb 0.012 lb 0.020 lb 0.023 lb 0.022 lb 0.042 lb 0.045 lb 0.13 lb 0.10 lb 0.25 lb 0.24 lb 0.50 lb 0.49 lb 1.3 lb 1.2 lb 2.5 lb 1.3 lb 11 lb	Class F weights

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Pipettes ³	(0.1 to 1) µL (1 to 50) µL (50 to 100) µL (100 to 200) µL (200 to 500) µL (500 to 1250) µL (1250 to 2500) µL (2500 to 5000) µL (5000 to 12 500) µL (12 500 to 30 000) µL (30 000 to 50 000) µL (50 000 to 100 000) µL	0.032 µL 0.093 µL 0.29 µL 0.41 µL 0.45 µL 0.64 µL 1.2 µL 2.9 µL 4.9 µL 7.3 µL 8.4 µL 16 µL	Gravimetric method

Parameter/Equipment	Range	CMC ² (±)	Comments
Load Cell			
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Compression	(250 to 1500) lbf (>1500 to 5000) lbf (>5000 to 25 000) lbf (>25 000 to 50 000) lbf (>50 000 to 100 000) lbf	6 lbf 14 lbf 36 lbf 78 lbf 130 lbf	
Mass, Fixed Points	226.796 g (8 oz) 453.592 g (1 lb) 907.185 g (2 lb) 2267.962 g (5 lb) 4535.924 g (10 lb) 9071.85 g (20 lb) 11 339.809 g (25 lb) 22 679.619 g (50 lb) 1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg 25 kg	0.22 mg 0.26 mg 0.37 mg 1.0 mg 1.7 mg 100 mg 32 mg 62 mg 0.0023 mg 0.0023 mg 0.0023 mg 0.0024 mg 0.0023 mg 0.011 mg 0.0029 mg 0.0029 mg 0.0029 mg 0.0045 mg 0.0045 mg 0.0061 mg 0.013 mg 0.016 mg 0.023 mg 0.047 mg 0.22 mg 0.27 mg 0.38 mg 0.68 mg 2.8 mg 3.9 mg 9.9 mg 10 mg	Modified substitution

II. Time & Frequency

Parameter/Equipment	Range	CMC ^{2, 5} (\pm)	Comments
Time ³ – Measure	(0 to 7200) sec	0.084 sec	Stopwatch

¹ This laboratory offers commercial calibration and field calibration services performed at the main laboratory listed above, and the following satellite laboratory listed below.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

⁴ This scope meets A2LA's *P112 Flexible Scope Policy*.

⁵ The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.



Accredited Laboratory

A2LA has accredited

THE SCALE PEOPLE INC., DBA THE LAB PEOPLE INC.

Columbia, MD

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – *Specific Requirements: Calibration Laboratory Accreditation Program*. 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).



Presented this 19th day of November 2024.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1452.01
Valid to December 31, 2026

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.