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 Buck Phone: 410 309 5880

CALIBRATION

Valid To: December 31, 2020 Certificate Number: 1452.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above as well as the one satellite laboratory location listed below[1, 5]:

I. Mechanical

Parameter/Equipment	Range	CMC[2] (±)	Comments
Analytical Balances[3]	1 mg	0.0073 mg	E2 weights;
	2 mg	0.0073 mg	Class 1 weights
	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	
	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 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 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	NIST Handbook 44 with Class 2 and F weights

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Torque[3] – Measure	1.78 in-lbf 10 in-lbf 100 in-lbf 800 ft-lbf	0.0002 in-lbf 0.002 in-lbf 0.01 in-lbf 0.094 ft-lbf	Momentum ARM torque calibration system
Force Measurement Devices[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 0.0045 lbf 0.011 lbf 0.023 lbf 0.045 lbf 0.11 lbf 0.23 lbf 0.45 lbf	Class 2 weights Class F 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	0.00029 lb 0.00050 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	NIST Handbook 44 with Class F weights Maximum available load 6000 lb

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	NIST Handbook 44 with Class F weights Maximum available load 6000 lb
Pipettes[3]	0.5 µL 1 µL 2 µL 5 µL 10 µL 20 µL 50 µL 100 µL 200 µL 500 µL 1000 µL 2000 µL 5000 µL 10 000 µL	0.10 µL 0.08 µL 0.07 µL 0.07 µL 0.10 µL 0.15 µL 0.13 µL 0.26 µL 0.66 µL 0.64 µL 1.5 µL 1.4 µL 7.3 µL 7.2 µL	Gravimetric method

Parameter/Equipment	Range	CMC[2] (±)	Comments
Load Cell[3]			
Tension[3]	5000 lbf 50 000 lbf 100 000 lbf	1.3 lbf 11 lbf 23 lbf	Load cell
Compression[3]	5000 lbf 50 000 lbf 100 000 lbf	1.3 lbf 10 lbf 15 lbf	Load cell
F/M Test Stands[3]			
Tension[3]	200 lbf	0.03 lbf	Load cell
Compression[3]	200 lbf	0.03 lbf	Load cell
Distance[3]	(0 to 6) in	0.002 in	Height gauge
Time[3]	(0 to 24) hours	0.14 seconds	Stop watch
Weights[3]	(10 to 41 000) g	$(2.7 \times 10^{-1} + 1.9 \times 10^{-5} \times Wt)$ g	Class 2, Class F weights *Wt* = weight under test

II. Time & Frequency

Parameter/Equipment	Range	CMC[2] (±)	Comments
Centrifuge[3]			
Rotation[3] – Measure (rpm)	(6 to 8300) rpm (8300 to 24 999) rpm (25 000 to 99 999) rpm	2.2 rpm 4.6 rpm 6.1 rpm	Tachometer
Time[3]	(0 to 24) hours	0.14 s	Stop watch
Temperature[3]	(-40 to 1000) °F	2.0 °F	Probe

Satellite Facility
THE SCALE PEOPLE, Inc.,
dba THE LAB PEOPLE Inc.
708-H Gum Rock Court
Newport News, Virginia 23606
Amanda Buck Phone: 410 309 5880

I. Mechanical

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Analytical Balances[3]	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 700 mg 1 g 2 g 2.1 g 3 g 5 g 6 g 7 g 10 g 30 g 50 g 100 g 150 g 200 g 230 g 250 g 400 g 500 g	0.0073 mg 0.0073 mg 0.0073 mg 0.0095 mg 0.012 mg 0.012 mg 0.012 mg 0.012 mg 0.012 mg 0.017 mg 0.039 mg 0.043 mg 0.043 mg 0.043 mg 0.040 mg 0.043 mg 0.056 mg 0.058 mg 0.093 mg 0.14 mg 0.29 mg 0.32 mg 0.58 mg 0.61 mg 0.60 mg 1.3 mg 1.4 mg	E2 weights; Class 1 weights

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Force Measurement Devices[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 0.0045 lbf 0.011 lbf 0.023 lbf 0.045 lbf 0.11 lbf 0.23 lbf 0.45 lbf	Class 2 weights Class F weights
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[1] This laboratory offers commercial calibration and field calibration services.

[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 and this laboratory meets A2LA *R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. 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] 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.

[5] This scope meets A2LA's *P112 Flexible Scope Policy*.

[6] This accreditation covers calibrations performed at the main laboratory, and the following satellite laboratory listed above.

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 26th day of November 2018.

President and CEO
For the Accreditation Council
Certificate Number 1452.01
Valid to December 31, 2020

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