SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ASSOCIATED SCALE, LLC
11150 Stephens Rd.
North Bend, OH 45052
Michael A. Siefke Phone: 513 353 3788

CALIBRATION

Valid To: May 31, 2022 Certificate Number: 1585.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations[1]:

I. Mechanical

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Scales[3] – Class II	(0 to 100) g (101 to 200) g (201 to 500) g (501 to 1000) g (1001 to 10 000) g (10 to 30) kg (30.1 to 60) kg	0.29 mg + 0.6*R* 0.58 mg + 0.6*R* 1.4 mg + 0.6*R* 2.9 mg + 0.6*R* 29 mg + 0.6*R* 3.5 g + 0.6*R* 6.9 g + 0.6*R*	NIST Handbook 44 with ASTM Class 1 weights ASTM Class F weights
Scales[3] – Class III and IIIL	(0 to 5) lb (6 to 10) lb (11 to 20) lb (21 to 50) lb (61 to 100) lb (101 to 200) lb (201 to 500) lb	0.00058 lb + 0.6*R* 0.0011 lb + 0.6*R* 0.0023 lb + 0.6*R* 0.0059 lb + 0.6*R* 0.011 lb + 0.6*R* 0.023 lb + 0.6*R* 0.059 lb + 0.6*R*	NIST Handbook 44 with Class F weights By substitution using railway weights or scale test car

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Scales[3] – Class III and IIIL (cont)	(501 to 1000) lb (1001 to 5000) lb (5001 to 10 000) lb (10 001 to 20 000) lb (20 001 to 30 000) lb (30 001 to 40 000) lb (40 001 to 50 000) lb (50 001 to 64 500) lb	0.11 lb + 0.6*R* 0.59 lb + 0.6*R* 1.1 lb + 0.6*R* 2.3 lb + 0.6*R* 3.4 lb + 0.6*R* 4.6 lb + 0.6*R* 5.7 lb + 0.6*R* 11 lb + 0.6*R*	NIST Handbook 44 with Class F weights By substitution using railway weights or scale test car

Satellite Lab
ASSOCIATED SCALE, LLC
570 Leo St.
Dayton OH 45404
Michael A. Siefke Phone: 513 353 3788

CALIBRATION

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations[1]:

I. Mechanical

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Scales[3] – Class II	(0 to 100) g (101 to 200) g (201 to 500) g (501 to 1000) g (1001 to 10 000) g (10 to 30) kg (30.1 to 60) kg	0.29 mg + 0.6*R* 0.58 mg + 0.6*R* 1.4 mg + 0.6*R* 2.9 mg + 0.6*R* 29 mg + 0.6*R* 3.5 g + 0.6*R* 6.9 g + 0.6*R*	NIST Handbook 44 with ASTM Class 1 weights ASTM Class F weights

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Scales[3] – Class III and IIIL	(0 to 5) lb (6 to 10) lb (11 to 20) lb (21 to 50) lb (61 to 100) lb (101 to 200) lb (201 to 500) lb	0.000 58 lb + 0.6*R* 0.0011 lb + 0.6*R* 0.0023 lb + 0.6*R* 0.0059 lb + 0.6*R* 0.011 lb + 0.6*R* 0.023 lb + 0.6*R* 0.059 lb + 0.6*R*	NIST Handbook 44 with Class F weights By substitution using railway weights or scale test car
Scales[3] – Class III and IIIL (cont)	(501 to 1000) lb (1001 to 5000) lb (5001 to 10 000) lb (10 001 to 20 000) lb (20 001 to 30 000) lb (30 001 to 40 000) lb (40 001 to 50 000) lb (50 001 to 64 500) lb	0.11 lb + 0.6*R* 0.59 lb + 0.6*R* 1.1 lb + 0.6*R* 2.3 lb + 0.6*R* 3.4 lb + 0.6*R* 4.6 lb + 0.6*R* 5.7 lb + 0.6*R* 11 lb + 0.6*R*	NIST Handbook 44 with Class F weights By substitution using railway weights or scale test car

[1] This laboratory offers commercial calibration service and field calibration service and is performed at the main laboratory and satellite laboratory listed.

[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] In the statement of CMC, *R* is the resolution of the device under test.

Accredited Laboratory

A2LA has accredited

ASSOCIATED SCALE, LLC

North Bend, OH

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 30th day of September 2020.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1585.01
Valid to May 31, 2022

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