



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ASSOCIATED SCALE, LLC
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 North Bend, OH 45052
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CALIBRATION

Valid To: October 31, 2018

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 calibrations¹:

I. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments
Scales ^{3,4} – Class II	(0 to 100) g (101 to 200) g (201 to 500) g (501 to 1000) g (1001 to 10 000) g	0.29 mg 0.58 mg 1.4 mg 2.9 mg 29 mg	NIST Handbook 44 with ASTM Class 1 weights
	(10 to 30) kg (30.1 to 60) kg	3.5 g 6.9 g	ASTM Class F weights
Scales ^{3,4} – 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 0.0011 lb 0.0023 lb 0.0059 lb 0.011 lb 0.023 lb 0.059 lb	NIST Handbook 44 with Class F weights By substitution using railway weights or scale test car

Parameter/Equipment	Range	CMC ² (±)	Comments
Scales ^{3,4} – Class III and III L (cont)	(501 to 1000) lb	0.11 lb	NIST Handbook 44 with Class F weights By substitution using railway weights or scale test car
	(1001 to 5000) lb	0.59 lb	
	(5001 to 10 000) lb	1.1 lb	
	(10 001 to 20 000) lb	2.3 lb	
	(20 001 to 30 000) lb	3.4 lb	
	(30 001 to 40 000) lb	4.6 lb	
	(40 001 to 50 000) lb	5.7 lb	
	(50 001 to 100 000) lb	11 lb	
	(100 001 to 200 000) lb	23 lb	
	(200 001 to 450 000) lb	52 lb	

¹ This laboratory offers commercial calibration service and field calibration service.

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 contributions from the “best existing device” are not included in the CMC claim.





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 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets any additional program requirements in the field of calibration. 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 8 January 2009).



Presented this 5th day of August, 2016.

A handwritten signature in black ink, appearing to read "L. S. ...".

President and CEO
For the Accreditation Council
Certificate Number 1585.01
Valid to October 31, 2018
Revised September 26, 2018

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