



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017
& ANSI/NCSL Z540-1-1994

SISTEMAS Y BASCULAS DE MEXICO S.A. DE C.V.
 Calle Miguel Palacios # 5570
 Cd. Juarez, Chihuahua 32390
 MEXICO
 Jose Lopez Phone: 01152656 6110933

CALIBRATION

Valid To: October 31, 2024

Certificate Number: 3063.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,4}:

I. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments
Analytical Balances ³ – Resolution: 0.01 mg 0.1 mg	Up to 220 g Up to 610 g	0.63 mg 1.9 mg	ASTM E617 Class 1 weights
Laboratory Balances ³ – Resolution: 1 mg 5 mg 0.01 g 0.001 lb 0.002 lb	Up to 20 g (> 20 to 100) g (> 100 to 200) g (> 200 to 300) g (> 300 to 520) g Up to 500 g Up to 1000 g Up to 15 lb Up to 60 lb	0.65 mg 0.72 mg 0.9 mg 1.1 mg 1.7 mg 4.5 mg 8.9 mg 0.000 65 lb 0.0013 lb	ASTM E617 Class 1 weights

Parameter/Equipment	Range	CMC ² (±)	Comments
Industrial Scales/Bench Scales ³ – Resolution: 1 g 2 g 5 g 0.01 kg 0.0001 lb 0.0002 lb 0.0005 lb 0.001 lb 0.002 lb 0.005 lb 0.01 lb	Up to 10 kg Up to 20 kg Up to 50 kg Up to 100 kg Up to 1 lb Up to 2 lb Up to 5 lb Up to 10 lb Up to 20 lb Up to 50 lb Up to 100 lb	1.4 g 2.8 g 7.0 g 14 g 0.000 065 lb 0.000 28 lb 0.000 71 lb 0.0014 lb 0.0028 lb 0.0071 lb 0.014 lb	NIST Class F weights
Floor Scales ³ – Resolution: 0.01 lb 0.02 lb 0.05 lb 0.05 lb 0.05 lb 0.1 lb 0.2 lb 0.5 lb	Up to 100 lb Up to 200 lb (> 75 to 249) lb (> 250 to 499) lb (> 500 to 1000) lb Up to 1000 lb Up to 2000 lb Up to 5000 lb	0.014 lb 0.028 lb 0.033 lb 0.045 lb 0.071 lb 0.14 lb 0.65 lb 1.6 lb	NIST Class F weights

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. 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*.



Accredited Laboratory

A2LA has accredited

SISTEMAS Y BASCULAS DE MEXICO S.A. DE C.V.

Cd. Juarez Chihuahua, MEXICO

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 the requirements of ANSI/NCSL Z540-1-1994 and 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 7th day of December 2022.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3063.01
Valid to October 31, 2024

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