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

BALANZAS Y EQUIPOS S.R.L (BALECA)
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CALIBRATION

Valid To: April 30, 2024 Certificate Number: 3655.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations[1, 5]:

I. Mechanical

Parameter/Equipment	Range	CMC[2] (±)	Comments
Scales & Balances[3]			SIM MWG7/CG-01/v00 using reference weights:
	(0 to 500) mg	0.03 µg/mg + 8.1 µg	OIML R111 Class E2
	(500 to 1000) mg	0.01 µg/mg + 78 µg	
	(1000 to 2000) mg	0.004 µg/mg + 80 µg	
	(0 to 500) g	1.7 µg/g + 51 µg	
	(500 to 1000) g	1.5 µg/g + 0.51 mg	
	(0 to 1000) g	0.1 µg/g + 8.2 mg	OIML R111 Class F1
	(1000 to 5000) g	0.7 µg/g + 7.5 mg	
	(5000 to 10 000) g	1.4 µg/g + 4.3 mg	
	(10 000 to 20 000) g	1.4 µg/g + 2.5 mg	
	(20 000 to 30 000) g	1.4 µg/g + 8.0 mg	
	(30 000 to 60 000) g	1.2 µg/g + 15 mg	
	(0 to 30) lb	0.001 lb	ASTM E617 Class 4
	(0 to 500) lb	0.041 lb	NIST 105-1 Class F
	(500 to 2500) lb	0.000 011 lb/lb + 0.16 lb	
	(0 to 10 000) lb	0.000 012 lb/lb + 0.8 lb	NIST 105-1 Class F resolution ≥ 1 lb
	(10 000 to 20 000) lb	0.000 017 lb/lb + 1.5 lb	
	(20 000 to 40 000) lb	0.000 05 lb/lb + 3.1 lb	

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Scales & Balances[3] (cont)			SIM MWG7/CG-01/v00 using reference weights:
	(40 000 to 80 000) lb (80 000 to 160 000) lb	0.000 08 lb/lb + 5.8 lb 13 lb + n·*R*	NIST 105-1 Class F, & substitution loads
	(0 to 150) kg (150 to 1000) kg	0.05 g/kg + 8 g 0.008 g/kg + 80 g	NIST 105-1 Class F
	(1000 to 5000) kg (5000 to 10 000) kg (10 000 to 25 000) kg (25 000 to 40 000) kg (40 000 to 80 000) kg	0.01 g/kg + 0.4 kg 0.02 g/kg + 0.76 kg 0.07 g/kg + 0.91 kg 0.12 g/kg + 1.6 kg 7 kg + n·*R*	NIST 105-1 Class F, & substitution loads
Mass			OIML R111 using reference weights:
	(1 to 50) g 100 g 200 g 500 g	0.12 mg 0.13 mg 0.15 mg 0.91 mg	OIML R111 Class E2
	1 kg 2 kg 5 kg 10 kg 20 kg 25 kg	1.1 mg 1.5 mg 2.9 mg 57 mg 60 mg 61 mg	OIML R111 Class F1
	1 lb 2 lb 5 lb 10 lb 20 lb 50 lb	0.91 mg 0.98 mg 1.6 mg 2.8 mg 57 mg 60 mg	ASTM E617 Class 3 & 4

[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. CMC's 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] For substitution load method, n is number of substitutions, and *R* is the resolution of the device under calibration.

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

Accredited Laboratory

A2LA has accredited

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Santo Domingo, DOMINCAN REPUBLIC

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 25th day of February 2022.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3655.01
Valid to April 30, 2024
Revised March 28, 2024

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