



American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

METTLER TOLEDO (INDUSTRIAL)

Columbus, 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 the requirements of ANSI/NCSLI Z540-1-1994 and 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 25th day of April 2013.





Peter Meyer

President & CEO
For the Accreditation Council
Certificate Number 1902.01
Valid to April 30, 2015

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005
& ANSI/NCSL Z540-1-1994

METTLER TOLEDO (INDUSTRIAL)
1900 Polaris Parkway
Columbus, OH 43240
Frank Gardone Phone: 412 213 2263

CALIBRATION

Valid To: April 30, 2015

Certificate No: 1902.01

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. Dimensional

Parameter/Equipment	Range	CMC ^{2,6} (±)	Comments
Calipers ³	Up to 6 in	200 µin	Gage blocks
Micrometers ³	Up to 6 in	(83 + 19L) µin	Gage blocks

II. Mechanical

Parameter/Range	Minimum Tested Capacity ⁴	CMC ² (±)	Comments
Scales ³ – Class I (0 to 300) g	100 %	0.25 mg	ASTM 1

Parameter/Range	Minimum Tested Capacity ⁴	CMC ² (±)	Comments	
Scales³ –				
Class II				
(0 to 100) g	100 %	1.1 mg	OIML F1, ASTM 2	
(0 to 200) g	100 %	2.3 mg		
(0 to 500) g	100 %	5.8 mg	OIML M1, ASTM 4 or Class F	
(0 to 1000) g	100 %	11 mg		
(0 to 10 000) g	100 %	0.12 g		
(0 to 32 000) g	100 %	0.58 g		
(0 to 64 000) g	100 %	1.2 g		
(0 to 150 000) g	100 %	0.31 g	ASTM 4	
Class III				
(0 to 5) lb	100 %	0.00058 lb	Class F	
(0 to 10) lb	100 %	0.0012 lb		
(0 to 20) lb	100 %	0.0023 lb		
(0 to 50) lb	100 %	0.0058 lb		
(0 to 100) lb	100 %	0.012 lb		
(0 to 200) lb	100 %	0.023 lb		
(0 to 500) lb	75 %	0.12 lb		
Class III				
(0 to 1000) lb	75 %	0.12 lb	Railway track scale	
(0 to 5000) lb	50 %	0.58 lb		
(0 to 10 000) lb	50 %	1.2 lb		
(0 to 20 000) lb	50 %	2.3 lb		
(0 to 40 000) lb	12.5 %	5.8 lb		
	50 %	12 lb		
Class III				
(0 to 50 000) lb	12.5 %	5.8 lb		
	50 %	12 lb		
(0 to 100 000) lb	12.5 %	12 lb		
	50 %	24 lb		
(0 to 200 000) lb	12.5 %	23 lb		
	50 %	46 lb		
(0 to 450 000) lb	30 000 lb	58 lb		

Parameter/Range	Minimum Tested Capacity ⁴	CMC ² (±)	Comments
Scales ³ –			
Class IV			
(0 to 100) lb	100 %	0.012 lb	Class F
(0 to 500) lb	75 %	0.58 lb	
(0 to 5000) lb	50 %	5.8 lb	
(0 to 10 000) lb	50 %	58 lb	
Class III			
(0 to 5) kg	100 %	0.0012 kg	OIML M1
(0 to 10) kg	100 %	0.0023 kg	
(0 to 25) kg	100 %	0.057 kg	
(0 to 50) kg	100 %	0.012 kg	
(0 to 150) kg	100 %	0.023 kg	
(0 to 250) kg	75 %	0.057 kg	
(0 to 500) kg	75 %	0.12 kg	
(0 to 2500) kg	50 %	0.57 kg	
(0 to 5000) kg	50 %	1.2 kg	
(0 to 10 000) kg	50 %	2.3 kg	
(0 to 20 000) kg	12.5 %	5.7 kg	
	50 %	12 kg	
Class IIIL			
(0 to 25 000) kg	12.5 %	5.7 kg	OIML M1
	50 %	11 kg	
(0 to 50 000) kg	12.5 %	12 kg	
	25 %	24 kg	
(0 to 100 000) kg	12.5 %	23 kg	
Class IV			
(0 to 50) kg	100 %	0.012 kg	By substitution
(0 to 250) kg	75 %	0.57 kg	
(0 to 2500) kg	50 %	5.7 kg	
(0 to 5000) kg	50 %	29 kg	

¹ This laboratory offers commercial calibration service and field calibration service

² Calibration and Measurement Capability (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. Calibration and Measurement Capabilities 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 Minimum testing as required in accordance with NIST Handbook 44, Table 4.

⁵ This accreditation includes those field service representatives located in the United States and Canada reporting to Mettler Toledo (Industrial), Columbus, OH.

⁶ In the statement of Calibration and Measurement Capability, L is the numerical value of the nominal length of the device measured in inches.