



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, 2017

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. Mechanical

| Parameter/Range | Minimum Tested Capacity ⁴ | CMC ² (±) | Comments |
|--|--------------------------------------|----------------------|----------|
| Scales ³ – Class I (0 to 300) g | 100 % | 0.1 mg | ASTM 1 |

| Parameter/Range | Minimum Tested Capacity ⁴ | CMC ² (±) | Comments |
|------------------------------------|--------------------------------------|----------------------|--|
| Scales³ – (cont) | | | |
| Class II | | | |
| (0 to 100) g | 100 % | 0.34 mg | OIML F1, ASTM 2 OIML M1, ASTM 4 or Class F |
| (0 to 200) g | 100 % | 0.67 mg | |
| (0 to 500) g | 100 % | 1.2 mg | |
| (0 to 1000) g | 100 % | 0.006 g | |
| (0 to 2000) g | 100 % | 0.0012 g | |
| (0 to 5000) g | 100 % | 0.029 g | |
| (0 to 10 000) g | 100 % | 0.06 g | |
| (0 to 32 000) g | 100 % | 0.15 g | |
| (0 to 64 000) g | 100 % | 0.7 g | |
| (0 to 150 000) g | 100 % | 3 g | |
| Class III | | | |
| (0 to 5) lb | 100 % | 0.00036 lb | Class F |
| (0 to 10) lb | 100 % | 0.0009 lb | |
| (0 to 20) lb | 100 % | 0.0018 lb | |
| (0 to 50) lb | 100 % | 0.0044 lb | |
| (0 to 100) lb | 100 % | 0.009 lb | |
| (0 to 200) lb | 100 % | 0.018 lb | |
| (0 to 500) lb | 25 % | 0.035 lb | |
| Class III | | | |
| (0 to 1000) lb | 25 % | 0.07 lb | |
| (0 to 5000) lb | 12.5 % | 0.29 lb | |
| (0 to 10 000) lb | 12.5 % | 0.7 lb | |
| (0 to 20 000) lb | 12.5 % | 1.2 lb | |
| (0 to 40 000) lb | 12.5 % | 2.9 lb | |
| Class IIII | | | |
| (0 to 200 000) lb | 12.5 % | 12 lb | Railway track scale |
| (0 to 450 000) lb | 30 000 lb | 58 lb | |

| Parameter/Range | Minimum Tested Capacity ⁴ | CMC ² (±) | Comments |
|------------------------------|--------------------------------------|----------------------|-----------------|
| Scales ³ – (cont) | | | |
| 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 IIIIL | | | |
| (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 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 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.



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/NCSL 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 12th day of May 2015.





President & CEO

For the Accreditation Council
Certificate Number 1902.01
Valid to April 30, 2017

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