

Calibration & Certification



Audit-Proof Calibration

Procedural Consistency

Electronic Flexibility

Quality Assurance

Extra Safety

Calibration and Certification for Compliance and Beyond

METTLER TOLEDO

Ensure Quality and Compliance with Unmatched Ease and Consistency

With calibration and certification services from METTLER TOLEDO, you can be relaxed about compliance. Consistent global procedures, readily available documentation and valuable data let you manage performance beyond the next audit.

Profit from METTLER TOLEDO calibration services with professional and self-explanatory certificates for industrial weighing equipment. Our certificates assure full compliance with regulatory and industry standards and prove your results are accurate and precise. Be confident that your scales perform to specification – and that your auditor knows it too.

Procedural Consistency



Do you need long-term consistency for your calibration procedures?

METTLER TOLEDO authorized technicians calibrate and certify your scales with our proprietary Mira-Cal™ software. Pre-set calibration workflows guarantee audit-proof testing procedures consistently executed by all technicians across all countries and industries.

Electronic Flexibility



Are you concerned about preserving your calibration history?

METTLER TOLEDO administers your certificates in PDF format allowing for environmentally sound, paperless archival and retrieval at any time. All certificates are safely stored on your computer and readily available upon request from our secure database backup.

Quality Assurance



Are you looking for a state-of-the-art certification system?

Computer-generated METTLER TOLEDO certificates eliminate human errors in the application of correct standard levels, the calculation of tolerances, as well as certificate generation. Fully traceable certificates will satisfy your auditor and give you all the information you need to be on top of performance management.



Extra Safety



Are you looking for a smart way to significantly reduce your weighing risk?

Knowing the minimum weight adds essential extra reliability to your weighing processes. The Minimum Weight certificate defines the lowest weighing limit for your specific tolerances and safety factors, applying to the unique METTLER TOLEDO Good Weighing Practice™ (GWP™) methodology.

The METTLER TOLEDO Advantage



MiraCal™, the proprietary calibration and certification system of METTLER TOLEDO, provides total consistency by guiding our service technicians through globally-applicable standard operating procedures. It provides full traceability of your certificates

and paperless delivery, thus significantly supporting your efforts towards achieving a more sustainable working environment.

Choose METTLER TOLEDO for your calibration and certification needs. Our service technicians are eager to help you achieve the highest levels of performance and compliance for a smooth audit. No matter how small or large your operation, you will benefit from experienced service technicians who have access to a worldwide network of resources and industry experts.

All the Information You Need Neatly in One Place

Eccentricity

Position	AS FOUND		AS LEFT	
	Displayed Value	Deviation	Displayed Value	Deviation
Center	200.0 kg	N/A	200.0 kg	N/A
Left Flare	200.0 kg	0.0 kg	200.0 kg	0.0 kg
Left Rear	200.0 kg	0.0 kg	200.0 kg	0.0 kg
Right Rear	200.0 kg	0.0 kg	200.0 kg	0.0 kg
Right Flare	200.0 kg	0.0 kg	200.0 kg	0.0 kg

Eccentricity Test

States the measurement deviation of off-center loading

Linearity

n	Nominal Value	As Found			
		Reading	Error	Allowable Error	Minim. Tolerances
1	5 kg	5.0 kg	0.0 kg	± 0.5 kg	YES
2	10 kg	10.0 kg	0.0 kg	± 0.5 kg	YES
3	250 kg	250.0 kg	0.0 kg	± 0.5 kg	YES
4	500 kg	500.0 kg	0.0 kg	± 1 kg	YES
5	750 kg	750.0 kg	0.0 kg	± 1 kg	YES

Linearity

Assesses the linear relationship of incremental sample sizes

Repeatability

n	Test Weight: 200 kg		
	Without Test Weight	With Test Weight	Actual Value
1	0.0 kg	200.0 kg	200.0 kg
2	0.0 kg	200.0 kg	200.0 kg
3	0.0 kg	200.0 kg	200.0 kg
4	0.0 kg	200.0 kg	200.0 kg

Repeatability

Determines the consistency of successive measurements

Measurement Uncertainty

Loads Applied	k	5 kg	10 kg	250 kg	500 kg
Combined Uncertainty	u(E)	± 0.14 kg	± 0.14 kg	± 0.14 kg	± 0.15 kg
Loads Applied	k	750 kg	1000 kg	1500 kg	N/A
Combined Uncertainty	u(E)	± 0.15 kg	± 0.15 kg	± 0.15 kg	N/A

Measurement Uncertainty

Calculates relative and systematic error of the results

Minimum Weight

Weighing Accuracy	Safety Factors			
	1x (safety factor of 1)	2x (safety factor of 2)	5x (safety factor of 5)	10x (safety factor of 10)
0.1%	293.8 kg	575.3 kg	875.0 kg	1500.0 kg
0.2%	140.9 kg	283.8 kg	428.8 kg	734.1 kg
0.5%	66.1 kg	132.5 kg	199.4 kg	353.8 kg
1%	28.0 kg	56.1 kg	84.3 kg	140.9 kg
2%	14.0 kg	28.0 kg	42.1 kg	70.2 kg

Minimum Weight

States the minimum allowable weight for given tolerances

Reference Weights

Traceability	All weights used for metrological testing are traceable to national or international standards. The weights were calibrated and certified by an accredited calibration laboratory.		
Weight Set 1			
Weight Set No.	M1	Certificate Number	200
Class	M1	Date of Issue	11-Jul-2011
Calibration Due Date	11-Jul-2015		
	Description 3		8888888888

Reference Weight Traceability

Proves the reliability of the applied test weights

www.mt.com/service

For more information

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