Ensure Operational Reliability With Service XXL

Qualify your balances and work safely from day one. METTLER TOLEDO offers customized solutions for working in regulated environments.

EQ-Pac - Conformity and efficiency inclusive

The complete Equipment Qualification solution offers you all relevant IQ/PQ/MQ processes, the associated services and the necessary documentation.

IPac – to ensure qualified installation

Ready for immediate use- IPac offers you a professional installation and initial qualification. IPacs are ideal for integrating the weighing unit into an existing quality management system.

XXL Service – more than just service

METTLER TOLEDO offers custom services for day-today operational reliability to maintain the value and ensure fault-free operation of your weighing unit. Our global service network offers you cost-effective service solutions.

Pipette Calibration

Pipette Calibration Solutions

Efficient

Ergonomic

Facilitates compliance

Accurate Pipettes

www.mt.com .

For more information

Day by Day



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The internationally recognized GWP® guideline reduces weighing risks and helps to:

- identify the correct balance for the weighing task
- reduce costs by optimizing testing procedures
- ensure compliance with regulations

www.mt.com/GWP





Individual Solutions from

Pipette Testing to Calibration Services

The accuracy of a pipette plays a critical part in your application.

METTLER TOLEDO offers you gravimetric solutions for occasional performance testing up to professional pipette calibration. We support you in finding the right mix: from self made pipette testing with professional service support to professional pipette calibration stations.



Pipette Performance Testing

High Throughput Calibration Solutions

Calibration Services

Pipettes within Specifications

Reduce Risks with Performance Tests

Ensuring that your pipettes perform within tolerances in your daily work is the economical way to reduce risks: Monitor the accuracy of your pipettes with regular pipette performance testing and pipette calibration to ensure data integrity.

Gravimetric testing is the recommended method for pipette performance testing according to ISO 8655. ISO 8655 specifies the readability and accuracy of a balance required in connection with the selected volume of the pipette under test.

Selected volume of apparatus under test V*	Readability
1 μl ≤ V ≤ 10 μl	0.001 mg
10 μl < V ≤ 100 μl	0.01 mg
100 μl < V ≤ 1000 μl	0.1 mg
1 ml < V ≤ 10 ml	0.1 mg
10 ml < V ≤ 200 ml	1 mg

^{*} For practical purposes, the nominal volume may be used to choose the balance



The perfect combination – the corresponding Evaporation Trap for each balance

In a professional testing approach Evaporation Traps are indispensable as they keep errors caused by evaporation to a minimum. For pipette performance testing simply mount the Evaporation Trap on your conventional balance and convert it into a pipette testing set-up.

Multipurpose pipette performance testing

The round glass Evaporation Trap fits onto all XP/XS Balances and allows pipette calibration down to a dispensed volume of 10 µl which covers most of the pipettes in your lab. In addition, the glass material reduces static effects.





Pipette performance testing in the microrange

Mount the robust steel trap on the Balance models XP26/56. Test pipette calibration down to a dispensed volume of 1 μ l. The readability of 1 μ g allows reproducible measurements.





Large volume pipette performance testing

The convenient and large Evaporation Trap fits to the portable Balances WXS/WXT. It allows uninterrupted pipetting for high-volume pipettes up to 10 ml. The minimum dispensed volume is 10 µl.





Safe in the case

For protection and easy storage the Evaporation Traps are delivered in a case.



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Boost the Productivity of Your Pipette Calibration Service

Fulfill all requirements while speeding up your calibration process: METTLER TOLEDO offers you efficient, compact and ergonomic solutions for single- and multi-channel pipette calibration. These solutions increase productivity and cost effectiveness of your calibration service and bring impressive return on investment.



Single channel pipette calibration at high speed

Pipette calibration with the XP26PC Microbalance is up to 3 times faster compared to a conventional balance. Its door opens automatically when the pipette passes through the light barrier. The XP26PC weighs smallest pipette volumes down to 1 µl.



Automated single- and multi-channel pipette calibration – convenient cost effectiveness

Check your multi-channel pipettes with a dispensed volume down to 10 µl at a time in a single step with the MCP System – generating reliable results and giving full traceability.





The liquid-containers are transported automatically and placed on the weighing pan individually

The MCP1-S system, delivered in a transport case, is ideal for on-site

Ergonomic Weighing Tables -

METTLER TOLEDO professional weighing tables increase weighing speed and foster reliable designed to enhance your laboratory weighing. The decoupling of the inner table from the work surface reduces vibrations and shortens the stabilization time of the balance. Improve work ergonomics with the adjustable table height and elbow cushions.





Calibry Calibration Software Customizable and Compliant

Calibry supports all steps of the calibration process and ensures full traceability of calibration data. RFID capabilities enable complete company-wide pipette management. The software saves all calibration data in a secure database and ensures compliance with ISO 8655 and FDA 21 CFR Part 11. Comprehensive reports provide full details of every calibration.

Reliable Pipette Monitoring

Calibry writes pipette and calibration information directly on the RFID tag. Using a scanner, pipette identification is 100% reliable and quickly provides the full calibration status.

Innovative Method Management

Calibry provides a complete overview of all methods. The methods can be easily customized and assigned to a group of selected pipettes.

Quick Access Window

Simply scan the pipette and all important information is visible at a glance: serial number, assigned method, reports and dates for the "Next Calibration" and "Quick Check" etc.



Pipette Calibration Service

Focused on Details

As one of the most respected manufacturers and suppliers of balance technology in the world, there is no one better equipped to also maintain the reliability of your pipettes. METTLER TOLEDO provides service support and performance verification of pipettes, either at your site or at one of our pipette calibration centers. Have a look at the options made available to you: they are affordable, fast and convenient.

Preventive Maintenance (PM)

The fastest and most cost effective way for high pipette reliability.

On-site functional and leak testing, replace ment of worn parts, and thorough cleaning eliminate 95% of possible problems before they even occur.

Calibration (Cal.)

The most economic way to test to specifications.

Functional testing and gravimetric evaluation to manufacturer or ISO 8655 specifications including documentation and accredited cali bration certificates.

For maximum pipette reliability, accuracy.

(PM + Cal) and precision Gravimetric testing to manufacturer or ISO specifications, combined with functional and leak testing, replacement of worn parts, and thorough cleaning ensure best performance all around. Scheduled, in a controlled environment, and including documentation and ISO accredited calibration certificates.

Advanced

(PM + Cal + GxP)

For optimal pipette performance and GMP/GLP compliance.

Comprehensive and tailored calibration, maintenance, and documentation service plans, designed to meet the most stringent regulatory requirements. Including all necessary test ing, certificates, documentation, and further consulting.

RAININ products enhance the performance of laboratories by improving experiment accuracy and repeatability. RAININ offers the broadest selection of hand-friendly pipettes, bioclean tips, and related services, designed to work as an efficient integral system.



Pipettes with RFID

Rainin Pipet-Lite XLS is the world's first pipette equipped with a built-in electronic RFID tag for storing information. Each pipette is quickly and reliably identified and carries information such as "Next Calibration" and "Quick Check Dates".

Tips

RAININ high-grade bioclean tips offer innovative design and high quality production. Manufactured under clean-room conditions, these flawless tips are 100% contamination-free, preventing experiment inconsistencies and failures.

Evaporation Traps









Trap / Balance	XP/XS/XA	WXT/WXS/SAG	MCP System	AX/AT
Balance resolution	XP/XS Analytical:			AX/AT Analytical:
	0.1 / 0.01 mg	0.1 / 0.01 mg	0.01 mg	0.1 / 0.01 mg
				AX26:
				0.001mg
Trap Capacity	6 / 20 ml	6 / 20 ml	6 / 20 ml	6 / 20 ml
Trap order number	11140043	11138010	11138006	11140042 (for AX26 capacity of 6 ml only)









Trap / Balance	XP56/26	WXT/WXS/SAG	MCP System	XP/XS/XA
Balance resolution	0.001mg	0.1 / 0.01 mg	0.01 mg	0.1 / 0.01 mg
Trap Capacity	10 ml	100 ml	100 ml	100 ml
Trap order number	11140041	11138009	11138008	11138440

Calibry Calibration Software

,	Calibry Single		
	Calibry Light	Workstation	Calibry Network
	11138423	11138419	11138420
System			
Supporting Analytical or Precision Balances: XP26PC, XP, XS, XA, AX, SAG, AG, WXT, AT	•	•	•
Connection of up to 16 balances at 1 PC workstation	•	•	•
Calibration of single and multi-channel pipettes with MCP system		•	•
Support of more than 2000 calibrations / year (recommendation)			•
Support of SQL Server® database	•	•	•
Networkable system (installation on several PCs of the network accessing the same database)			•
Adherence to 21 CFR Part 11, incl. password protection (Windows based), user management,			
audit trail, automatic workstation lock.	•	•	•



Optional

RFID Reader 17011964 RFID Power User License 30007309 Validation Handbook 11780959

Key features

- Full adherence to ISO 8655 (tolerances, method, report)
- Built-in database of ISO and manufacturers' pipette calibration specs for over 2500 pipettes
- Company-wide RFID Pipette Management system
- Calibration scheduler with Tasks List
- Correction for environmental parameters
- Automatic evaluation of calibration results with pass or fail tag
- Complete calibration history for all pipettes
- Support of physical inspection and corrective actions
- Advanced options of customization, e.g. calculation of the Z factor thanks to an equation editor
- Report generator: preview, design and modify functions included
- Export of customizable reports in MS-Word® and Excel

High-speed System for Micro Pipette Calibration



Excellence Plus XP26PC

Standard equipment

- Removable light barrier for right or left hand use
- Evaporation Trap, with a 10 ml container
- Single-channel pump
- Calibration Kit (including 1 g OIML-certified weight, a pair of tweezers, special weighing pan and certificate)
- LevelControl warns you when the balance is not leveled
- BalanceCheck prompts automatically for validation with external weights
- proFACT fully automatic time- and / or temperature-controlled internal adjustment and linearization
- Built-in RS232 interface and two auxiliary outlets
- Slot for second interface (7 options), incl. Bluetooth and Ethernet
- Production certificate

Specifications	XP26PC
Maximum capacity	22 g
Readability	0.001 mg
Measurement standard uncertainty	0.0015 mg
Minimum dispensed volume (acc. to ISO8655)	1 μΙ
Evaporation Trap	built in
Settling time	3.5 s
Dimensions (L x W x H), mm	487 x 263 x 296
Weight	11 kg

Ordering information and Accessories XP26PC	Order Number
XP26PC	11106021
ErgoSens external sensor for hands-free opteration	11132601
Foot-operated switch for balance functions	11106741
RS9-RS9 (m/f) cable, 1 m	11101051
LICE 222 convertor cable	11102601

Multi-channel Pipette Calibration System



- Single-channel set with 20 ml evaporation trap
- Multi-channel set for up to 12 channels
- Calibration set
- Carrying case
- One channel exhaust pump
- Reservoir for collecting the test fluid
- Single-channel pump

Specifications	MCP1-S
Number of channels	up to 12
Container Volume (with fill level warning)	16 ml
Readability	0.01 mg
Maximum capacity	101 g
Repeatability (s)	0.02 mg
Stabilisation time (typical)	5 s
Dimensions of analysis device and motor control*	220 x 177 x 91
Dimensions of measuring unit*	296 x 171 x 164
Weight	8 kg
Weight including carrying case and accessories	15 kg
* L x W x H	

Ordering information	
and Accessories MCP System	Order Number
MCP1-S	11138007
4-channel exhaust pump	11138252
One channel Kit with 20 ml Evaporation Trap	11138006
One channel Kit with 100 ml Evaporation Trap	11138008
Calibration Set including 20g E2 weight with cer-	
tificate, weighing pan, draught shield, tweezers	11138254

Weighing Tables







	Weighing Table XP26PC	Weighing Table MCP2	Weighing Table MCP5
Order number	11138041	11138040	11138043
Outer table dimensions (WxDxH)	760 x 803 x 784 mm	760 x 803 x 784 mm	1380 x 1380 x 784 mm
Height adjustment range (outer table)	718 - 820 mm	718 - 820 mm	718 - 820 mm
Weight	approx. 130 kg	approx. 130 kg	approx. 200 kg
Configuration	Outer and inner table	Outer and inner table	Outer and inner table
	Monitor base	Monitor base	
	Power supply shelf	Power supply shelf	Power supply shelf
	Elbow cushion (narrow) 2x	Elbow cushion (wide)	Elbow cushion
	Keyboard and mouse	Keyboard and mouse	Keyboard and mouse

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