

Weighing Solutions

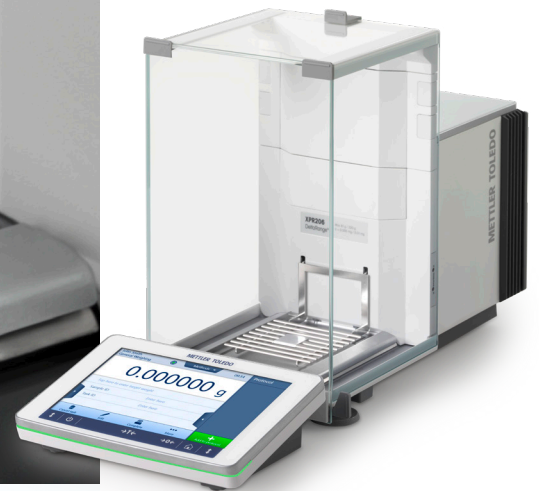


XPR Balances

Trust the results

Ensure compliance

Increase productivity



Excellence XPR Balances Go Beyond Weighing

METTLER TOLEDO

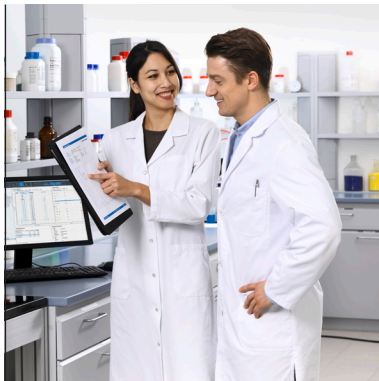
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part of Thermo Fisher Scientific

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We Understand The Value of Your Sample

Samples are the core of every analysis. Achieving reliable analytical results is dependent on the accuracy of the initial sample weighing, and you want to be sure that your precious samples are used economically. Efficient and error-free weighing processes save time, money and materials, and investing in a balance that consistently delivers results you can trust soon pays off.

XPR balances meet the challenge of handling rare, expensive or demanding samples in often complex applications. You can trust that your sample preparation will be right-first-time to avoid errors in downstream processing. Options for customization ensure you always get the best results and maximize resources; weighing is more efficient and you reduce the total cost of your analysis.



Trust the results

METTLER TOLEDO's history of weighing innovations spans over a century. We are the trusted partner for National Measurement Institutions, USP and countless calibration laboratories around the world. Trust in our solutions for quality weighing results.



Ensure compliance

METTLER TOLEDO supports you to meet your internal quality standards as well as external regulations such as ISO, GMP etc. Our full workflow solutions help you comply with FDA ALCOA+ data integrity requirements.



Increase productivity

With increasing pressure to improve throughput and reduce costs, weighing automation and right-first-time solutions can help you meet your targets. We offer you a wide range of solutions to simplify weighing workflows and ensure efficient processes.



"This sample is at the core of my analysis. I want to be sure I get the results right the first time".

Trusted Results

Means More than Collecting Data

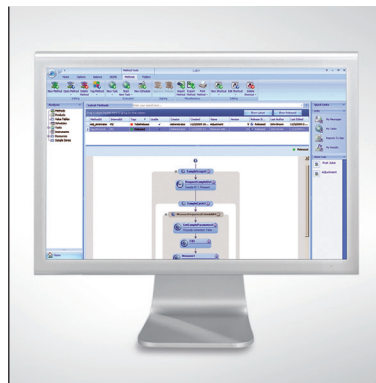
Every sample analysis generates data. You can trust XPR balances to deliver reliable results, but how secure are your processes? Has all your data been recorded correctly? Are there any mistakes in your calculations? Will your data pass an audit?

LabX software offers you more than a complete data management system for your laboratory. With central control of instruments, tasks and users, SOP guidance on the balance terminal, and elimination of manual transcription, LabX provides ultimate security, increases efficiency and ensures full data integrity.



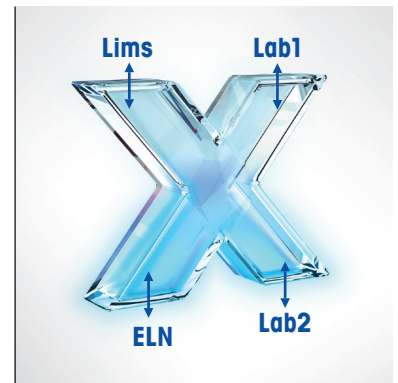
Assured data integrity

- Guaranteed traceability
- Data collecting and archiving
- Meet ALCOA+ data integrity requirements
- Audit-ready anytime
- Tailored reporting



Optimized lab processes

- SOP user guidance on the balance
- Automatic recording, calculation and transfer of data (incl. metadata)
- Eliminate transcription errors



Instrument management

- Central management of instruments
- Easy integration to other lab systems (LIMS, ELN, LES, SAP)



One-for-all solution

You can connect one or more instruments to a single PC which can even be located outside your laboratory as the system works via your internal network. All administrative work is automated so your whole process can be digitalized – the paperless lab is here!

Balances

Automated Quantos Dosing Systems

UV-VIS Spectrophotometers

Density Meters & Refractometers

Titration & Karl Fischer Titrators

pH Meters

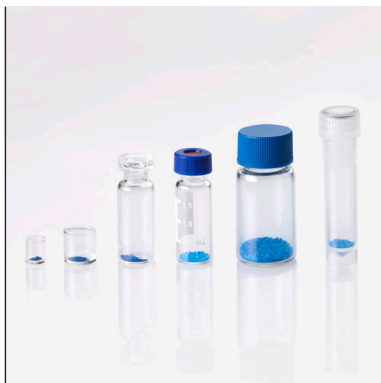
Automated Sample Changers

XPR Micro-Analytical Balances

Direct Dosing of Very Small Samples

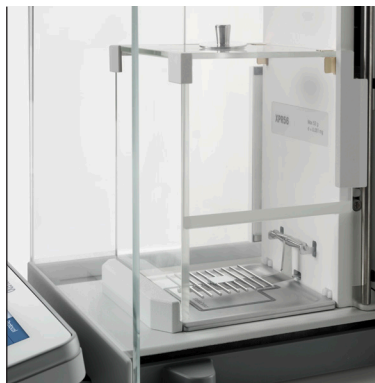
XPR micro-analytical balances are perfect for accurately weighing the smallest amounts of your valuable samples directly into labware of different sizes. The extremely high accuracy and low minimum weight make it possible to weigh very small quantities, leading to considerable material and cost savings.

With capacity up to 52 g, very small samples can be conveniently weighed out into larger containers, simplifying weighing processes and avoiding the need for sample transfer.



Economical sample use

XPR micro-analytical balances are capable of weighing down to 1.4 mg at 52 g capacity (according to USP). You only need to use the tiniest amounts of expensive, rare and potent substances.



Fast and stable results

The SmartGrid weighing pan significantly reduces the effects of air turbulence on the weighing cell. Stabilization time is reduced and results are faster – particularly beneficial when working in a fume cupboard.



Avoid sample transfer

By dosing directly into your tare container, you avoid the tedious back-weighing and recalculation processes associated with sample transfer via e.g. weighing paper – and you don't lose any of your precious samples.



LabX Solution: Generate customized reports automatically

Set up report templates with the information you require. Thanks to LabX, you can print out a report automatically at the end of each process. All data is saved securely in a centralized database enabling results to be accessible and reports to be generated at any time. This is especially relevant, for example, when preparing standards and sample solutions for research projects. The user can define which set of data is most relevant for their experiment and create reports accordingly.

XPR Analytical Balances

Valid Results Every Time

Successful analyses begin with accurate weighing, and, thanks to smart quality assurance features, XPR analytical balances deliver valid results first time, every time. Seamlessly integrating into your existing information system, XPR analytical balances support the highest requirements for security, efficiency and compliance.

With our wide range of accessories and modules, it has never been so easy to upgrade your balance to perfectly fit your process needs and ensure the efficient handling of even the most demanding of samples. LabX laboratory software provides a full workflow solution to optimize processes and guarantee data integrity.



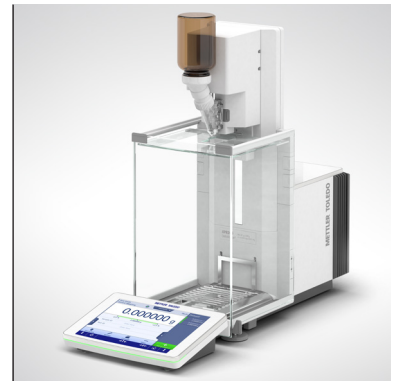
Right-first-time results

Intelligent functions, such as StatusLight, LevelControl and GWP Approved, help ensure right-first-time results by actively monitoring that all relevant conditions for correct weighing are met.



Consistent workflows

Process and balance settings for different weighing tasks can be saved on the balance as individual methods. Easily accessed, users have a quick and convenient way to start tasks and every user follows the same procedure.



Easy automation upgrade

XPR analytical balances are easily extended to provide automated powder and/or liquid dosing. Automated dosing offers a level of accuracy and user safety which is impossible to match in a manual process.



LabX Solution: Audit-ready any time

LabX provides SOP user guidance on all connected instruments and saves all process information in a secure, centralized database. With full support for regulatory compliance, LabX helps you meet FDA ALCOA+ requirements for data integrity.

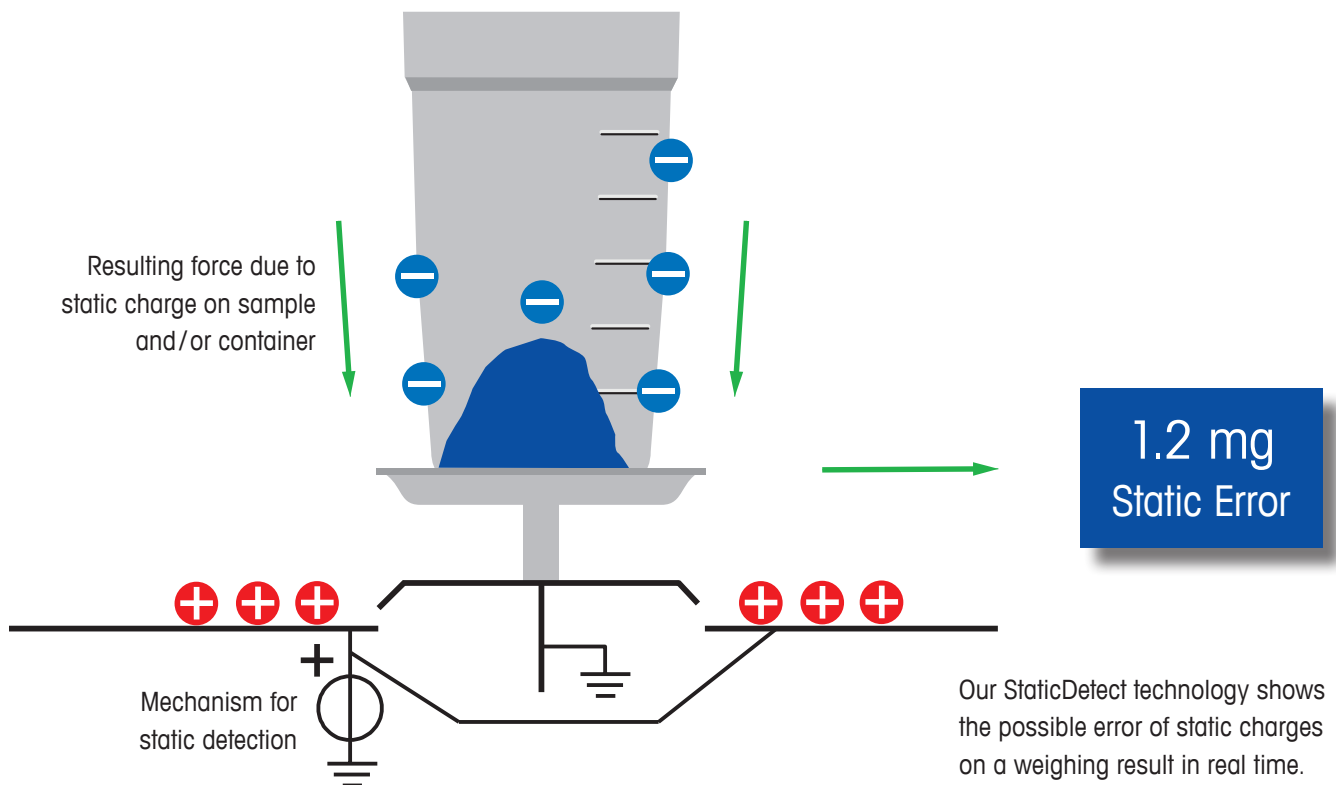
This is especially relevant, for example, in case of batch release or quality control procedures. All weighing data, including metadata, is stored centrally at the time of creation, and is quickly available for review or audits.

Anti-Static Solutions

Eliminate a Hidden Error Source

Electrostatic charging occurs through normal sample and tare container handling and is one of the biggest hidden sources of weighing errors. In addition, samples can be difficult to handle, the balance may not settle and it's hard to replicate results.

Thanks to the patented StaticDetect function, XPR micro-analytical and analytical balances detect electrostatic charges on samples and containers and provide a warning to the user. With the use of an ionizer, electrostatic charges can be completely eliminated to avoid any influence on the weighing result.





1. StaticDetect

StaticDetect measures the weighing error due to electrostatic charging and provides a warning if user tolerances are exceeded. StaticDetect works in both standard conditions and in more challenging environments such as a fume hood.

2. Anti-static kits

The optional ionizing module can be set to work automatically when the draft shield doors are closed, eliminating electrostatic charges inside the weighing chamber in just a few seconds. Freestanding ionizers are also available.

3. ErgoClip holders

ErgoClips hold sample containers securely on your balance and also act as Faraday Cages to shield the weighing cell against any electrostatic influences that may be present.

Consistently Accurate Results In Three Simple Steps

As a key stage in your workflow, accurate weighing is essential to ensure you deliver quality products in a cost-effective manner. In accordance with our globally recognized Good Weighing Practice™ (GWP®), METTLER TOLEDO's Sales and Service team can help you achieve consistently accurate and reliable weighing results.

The scientific based GWP® program matches your weighing process requirements to the performance of the balance and the necessary maintenance activities. This approach ensures selection of the appropriate balance and protects you from experiencing undetected sample waste and unnecessary process repetitions. Our expertise means you can enjoy top weighing performance, maximum uptime and compliance with the norms and standards relevant to your industry, while maintaining budget control.



1. Selection

Our free GWP® Recommendation service provides documentary evidence that the selected balance meets your specific process, quality and regulatory requirements. It gives you the knowledge you need to make the correct balance purchase decision.



2. Installation

Our Installation Packs document balance installation and qualification in accordance with regulations and provide guidance on controlling environmental influences that may affect accuracy. The integral user training ensures balances are used correctly from day one.



3. Calibration and routine testing

Balance calibration is essential for accurate results. GWP® Verification service proves balance accuracy on-site and includes an optimal routine testing and calibration schedule, specification of the required test weights, and the ideal maintenance plan.



Your METTER TOLEDO service technician uses the information from your GWP® Verification and the balance calibration to program the built-in GWP Approved quality assurance function. GWP Approved prompts you to carry out calibration and routine balance tests in accordance with your specific accuracy requirements. A record of all tests is maintained that is suitable for audit purposes. Your benefit: GWP Approved documents the proven validity of every single result over the balance lifetime.



Good Weighing Practice™
The Highest Quality Standard in Weighing

► www.mt.com/gwp

XPR Micro-Analytical and Analytical Technical Specifications



XPR Micro-Analytical

Readability 0.001 mg

	XPR26	XPR26DR	XPR56	XPR56DR
Material number	30355476	30355530	30355535	30355539
Maximum capacity (full range/fine range)	22 g	22/5.1 g	52 g	52/11 g
Readability (full range/fine range)	0.001 mg	0.01/0.001 mg	0.001 mg	0.01/0.001 mg
Repeatability ¹⁾ (5% load)	0.0007 mg	0.001 mg	0.0007 mg	0.001 mg
Sensitivity offset, nominal load ¹⁾	0.016 mg	0.024 mg	0.03 mg	0.03 mg
Settling time ¹⁾	3.5 s	2.5 s	3.5 s	2.5 s
Minimum weight (k=2, U=1%) ²⁾	0.14 mg	0.2 mg	0.14 mg	0.2 mg
Minimum weight (according to USP) ²⁾	1.4 mg	2 mg	1.4 mg	2 mg

¹⁾ Typical value

²⁾ Minimum weight typical at 5% load



XPR Analytical

Readability 0.01 mg

	XPR206DR	XPR105	XPR105DR	XPR205	XPR205DR
Material number	30355385	30355389	30355342	30355411	30355415
Maximum capacity (full range/fine range)	220/81 g	120 g	120/41 g	220 g	220/81 g
Readability (full range/fine range)	0.01/0.005 mg	0.01 mg	0.1/0.01 mg	0.01 mg	0.1/0.01 mg
Repeatability ¹⁾ (5% load)	0.005 mg	0.007 mg	0.007 mg	0.007 mg	0.007 mg
Sensitivity offset, nominal load ¹⁾	0.08 mg	0.06 mg	0.12 mg	0.08 mg	0.12 mg
Settling time ¹⁾	2 s	2 s	1.5 s	2 s	1.5 s
Minimum weight (k=2, U=1%) ²⁾	1 mg	1.4 mg	1.4 mg	1.4 mg	1.4 mg
Minimum weight (according to USP) ²⁾	10 mg	14 mg	14 mg	14 mg	14 mg

¹⁾ Typical value

²⁾ Minimum weight typical at 5% load



Readability 0.05 mg/0.1 mg

	XPR205D5	XPR305D5	XPR204
Material number	30469150	30469154	30355419
Maximum capacity (full range/fine range)	220 g	320 g	220 g
Readability (full range/fine range)	0.05 mg	0.05 mg	0.1 mg
Repeatability ¹⁾ (5% load)	0.02 mg	0.02 mg	0.04 mg
Sensitivity offset, nominal load ¹⁾	0.12 mg	0.24 mg	0.12 mg
Settling time ¹⁾	1.5 s	1.5 s	1.5 s
Minimum weight (k=2, U=1%) ²⁾	4.1 mg	4.1 mg	8.2 mg
Minimum weight (according to USP) ²⁾	41 mg	41 mg	82 mg

¹⁾ Typical value

²⁾ Minimum weight typical at 5% load

LabX Laboratory Software

License Options

LabX laboratory software is available in two editions with all configurations and options handled via license keys. LabX Express is installed on one computer and enables you to connect up to three instruments. LabX Server can be installed on multiple computers and has a range of advanced options available; up to 30 instruments can be connected. LabX is licensed per connected instrument, not for each computer. Further Option Licenses can be added according to your needs.

Whether your setup is standalone or fully integrated with your existing information system, LabX works behind the scenes to take care of all your data while you concentrate on your analyses.

LabX Express

Suitable for small or standalone systems with one PC and a maximum of 3 connected instruments

LabX Server

Suitable for networks with multiple PCs and a maximum of 30 connected instruments

LabX Services

METTLER TOLEDO offers full support throughout all stages of the LabX life cycle:

- Method Development
- Installation
- Training
- Validation
- Maintenance

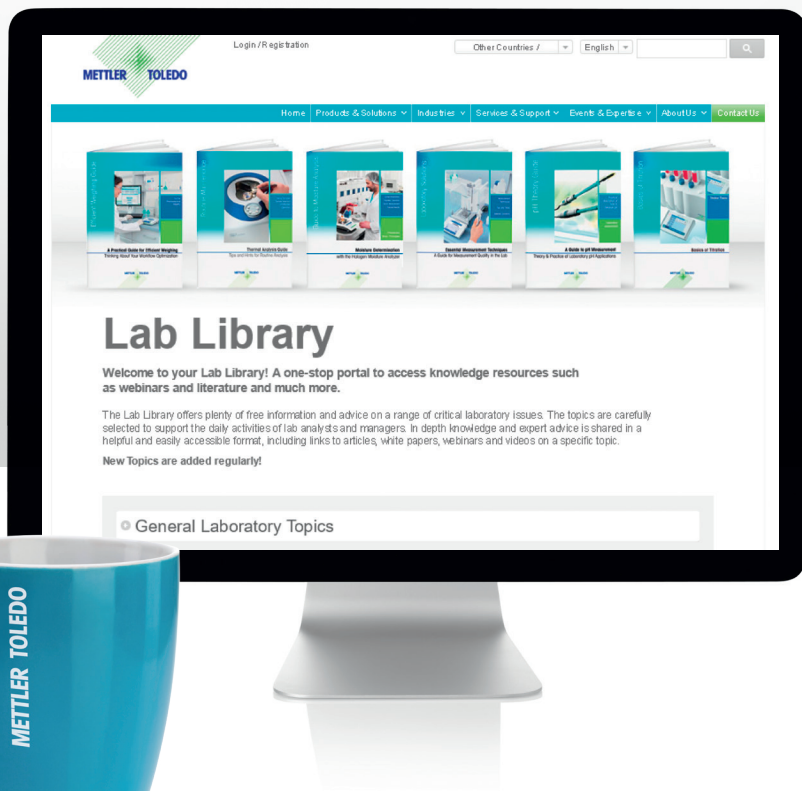
	LabX Express	LabX Server
Included	Starter Pack Express 1153120 LabX Balance Express Balance License	Starter Pack Server 1153121 LabX Balance Server Balance License Auto Import/Export User Management
	Product Database 11153103 Auto Import/Export 11153105 User Management 11153102 Balance License 11153220 (2 additional)	Product Database 11153103 Regulation 11153104 Report Designer 11153106 System Integration 11153107 Balance License 11153220 (29 additional)
Optional		

The range has been carefully designed to allow you to choose just the services necessary to match individual user needs and complement your system requirements. For further details, contact your local METTLER TOLEDO representative.

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