Weighing Solutions

XPR Balances

Trust the results

Ensure compliance

Increase productivity

Excellence XPR Balances
Go Beyond Weighing

METTLER TOLEDO

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".

XPR Balance Portfolio
Trusted Solutions for Your Sample

Choosing your new balance is an important decision that concerns more than just readability and capacity. It is vital to also consider your specific process and quality needs and to be sure your balance meets applicable regulatory requirements.

Our portfolio is the answer to your everyday weighing challenges and enables you to achieve uncompromised excellence in weighing. The XPR portfolio ranges from ultra-microbalances through to high capacity precision balances. Whether you want to weigh a few micrograms or several kilograms of your samples, XPR balances enable you to achieve outstanding weighing accuracy.

Micro Weighing
Max. capacity: 2 g – 10 g

Micro-Analytical Weighing
Max. capacity: 32 g – 52 g

Analytical Weighing
Max. capacity: 120 g – 320 g

XPR Benefits at a Glance

Common user interface
All balances across the XPR line feature the same terminal with the same intuitive XPR user interface. Operators can switch smoothly between tasks on different balances.

Assured process tolerances
The unique GWP Approved function provides a warning if the weight value is outside your process tolerances. You have the confidence of knowing your results are always valid.

Unmatched performance
Thanks to high resolution weighing cells, XPR balances offer the best repeatability and lowest minimum weight for each balance type. Active Temperature Control provides extraordinary thermal stability for outstanding weighing performance.

Flexible solutions
A wide range of accessories and options makes it easy to customize your balance for your weighing applications.

METTLER TOLEDO's Good Weighing Practice (GWP®) helps you to select the right balance for your needs based on your process requirements.

Precision Weighing (small platform)
Max. capacity: 200 g – 10 kg

Precision Weighing (large platform)
Max. capacity: 10 kg – 64 kg

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.
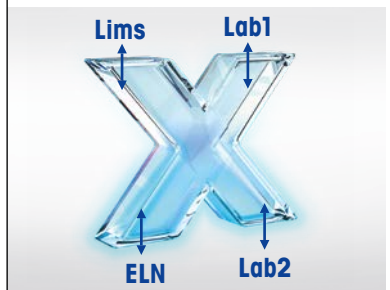
Assured data integrity

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

Optmized 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

Titrators & Karl Fischer Titrators

pH Meters

Auotmated Sample Changers

XPR Microbalances
Taking Weighing to New Limits

With precious samples available only in the smallest quantities, you need to get your analyses right first time to avoid wasting material, money and time. Thanks to unique design features, XPR balances deliver unmatched accuracy, and built-in active quality assurance functions give you the peace of mind that your results are valid and meet all your process requirements.

XPR microbalances support you to deliver traceable and compliant results in line with industry-wide standards, such as those from the US Pharmacopeia or Euramet.

Smallest sample sizes

Even under challenging weighing conditions, XPR microbalances deliver a unique level of precision with exceptionally low minimum weights. The XPR6U offers 0.1 µg readability and 0.15 µg repeatability.

Two-terminal convenience

The SmartView terminal is right where you need it with all the basic functions at your fingertips: tare, zero, open door and accept weight result. The main terminal can be conveniently placed outside your safety cabinet.

Space-saving footprint

Active Temperature Control enables all the XPR microbalance technology to be combined in one compact unit, in contrast to other microbalances which typically have two. The small footprint saves valuable bench space.

LabX Solution: Instant process information

LabX allows you to centrally control laboratory processes while working directly on the instrument terminal. It performs all calculations automatically and provides instant confirmation on whether each result meets predefined process tolerances.

This is especially relevant, for example, in filter weighing for emissions testing. Complex calculations for air buoyancy correction are done automatically.

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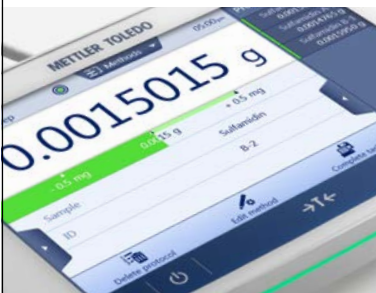
Intelligent functions, such as StatusLight, LevelControl and GWP Approved, help ensure right-first-time results by actively monitoring that all relevant conditions for correct weighing are met.

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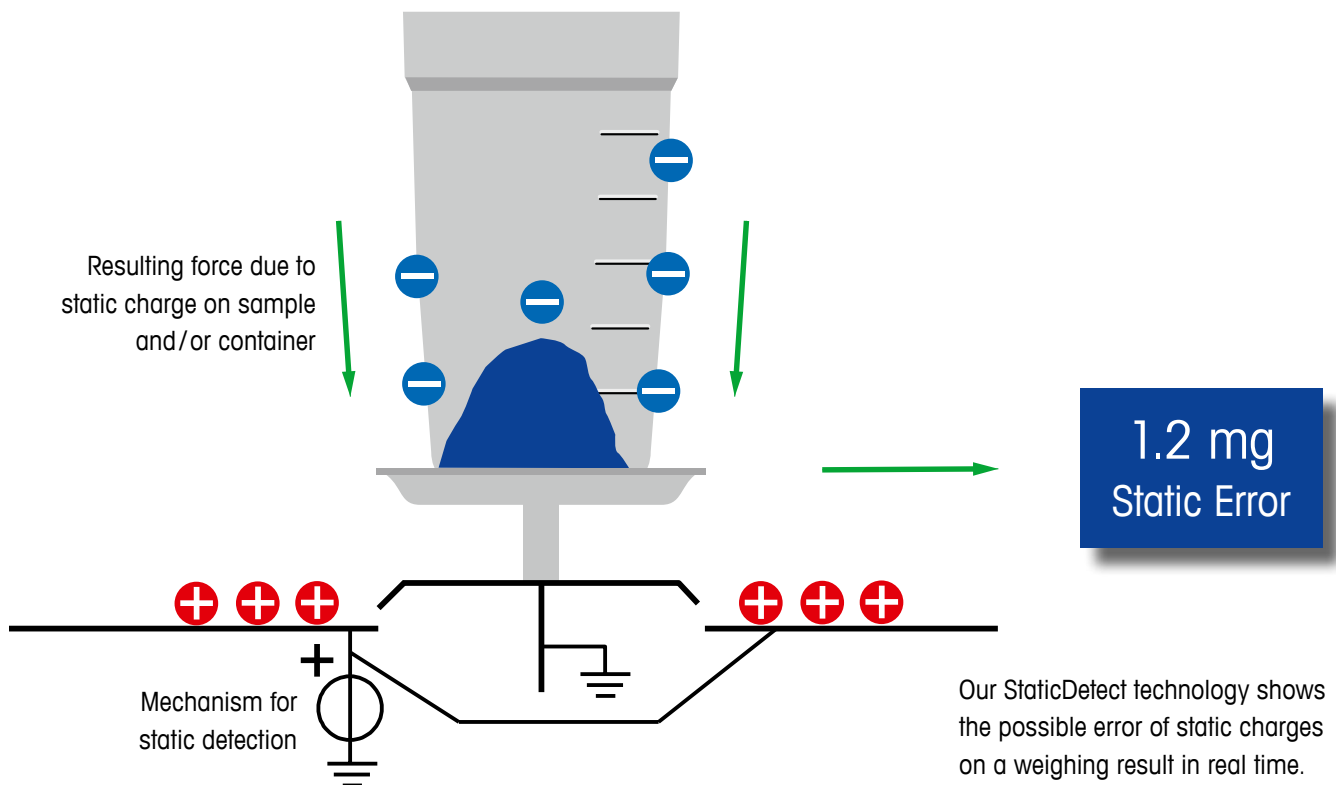
This is especially relevant, for example, in case of batch release or quality control procedures. All weighing data, including metadata, is stored centrally at the time of creation, and is quickly available for review or audits.

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.

Resulting force due to static charge on sample and/or container

1.2 mg
Static Error

Mechanism for static detection

Our StaticDetect technology shows the possible error of static charges on a weighing result in real time.

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.

XPR Precision Balances
Weigh at 1 mg without a Draft Shield

XPR precision balances provide you with fast and accurate weighing results, even under the toughest weighing conditions. The innovative SmartPan™ weighing pan minimizes the effects of air currents on the weighing cell, enabling even 1 mg balances to be used without a draft shield in standard conditions.

The intuitive interface provides intelligent functions to simplify weighing processes while smart quality assurance features automatically monitor the status of your balance to ensure your results are always valid.

Fast and accurate results
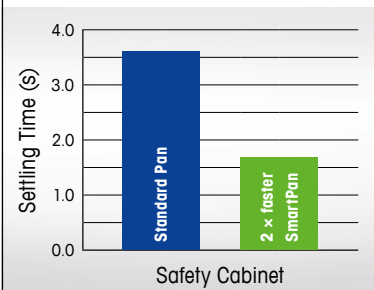
The high stability provided by SmartPan means you get your results up to twice as fast compared to a standard weighing pan. Even when weighing in challenging conditions, repeatability is improved up to two-fold.

Efficient processes

Saved weighing methods make it quick to start daily tasks. Results and task data are automatically recorded on the built-in results protocol. Time-consuming and error-prone manual data input/output can be eliminated.

Error-free data transfer

Multiple interfaces (4 USB, 1 LAN) provide error-free data transfer and many connection possibilities. XPR balances automatically recognize and configure a connected device in seconds, enabling you to get started right away.

LabX Solution: Central instrument management

LabX provides you with a full overview of all connected instruments, no matter where they are located, enabling you to centrally manage all instruments, tasks and users. LabX also notifies you if a balance test or service is due, making it easy to ensure all instruments are kept up to date and weighing results are valid.

This is especially relevant, for example, for formulations which are carried out in different locations across your company (such as your production floor). At any time, you can see the status of all activities and even view results in real-time.

XPR High Capacity Precision Balances
Solid Performance in Tough Conditions

XPR large platform precision balances deliver outstanding weighing performance even in harsh environments. The extremely durable construction is your guarantee of reliable results for years to come.

Customizable weighing methods, the built-in results protocol and intelligent quality assurance features help streamline your weighing processes and ensure valid results. These flexible balances offer wide-ranging solutions to meet the needs of almost any high capacity weighing application.

Outstanding performance	**Extremely durable**	**High accuracy**
The Monobloc™ weighing cell delivers fast and precise results. The LevelMatic pan offers the highest weighing accuracy, whilst SmartPan, standard on 0.01 g readability models, provides exceptional stability in busy areas.	Overload protection guards the weighing cell during the loading and unloading of heavy items. The full metal housing is chemically resistant and protects against dust and splashing liquids, ensuring a long balance lifetime.	The XPR26003LC has 26.1 kg capacity and 1 mg readability enabling you to accurately weigh small quantities in larger containers. Perfect when you have a low net sample weight and need exceptional repeatability.

LabX Solution: Seamless integration

LabX integrates seamlessly with LIMS and various ERP systems, in order to manage and store weighing data. Electronic end-to-end data transfer saves time, eliminates transcription errors and supports the move towards a paperless lab.

This is especially relevant, for example, for gas filling applications. Results are automatically transferred to your ERP, or other external systems, for lean material and data management.

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 Pacs 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**

Accessories
Small Details. Big Difference.

METTLER TOLEDO balances can be customized with accessories and peripheral devices to meet the needs of virtually any application. Our expertly designed accessories make your work easier, reduce fatigue, and increase accuracy and productivity.

View our range of over 200 accessories online.
▶ **www.mt.com/accessories**

Peripheral devices

Choose from a wide range of devices to optimize your weighing processes, including:
- Printers for fast, high quality printouts on paper and labels
- Barcode reader for error-free data transfer
- Foot switch for ergonomic balance operation

Sample preparation
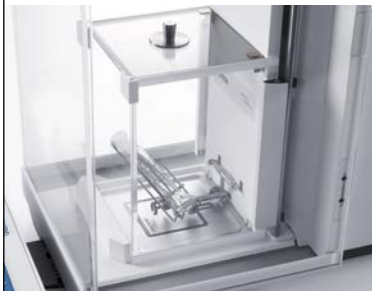
Convenient, safe sample preparation and transfer:
- ErgoClip container holders for one-step dosing
- SmartPrep dosing funnels for easy sample transfer
- Spatulas

Anti-static solutions

Innovative anti-static solutions for fast and efficient elimination of electrostatic charges from your samples and containers:
- XPR ionizing module
- Free-standing ionizing electrodes
- ErgoClip container holders for use as Faraday Cages

Weighing pans/draft shields

For improved weighing performance and more reliable results:
- Draft shields to protect the weighing cell from air currents
- Weighing pans and magnetic protection shield pan
- Kit for bullion weighing

Balance protection

Ensure your balance stays safe at all times:
- Protective covers for the balance, terminal and weighing pan guard against dirt and damage
- Anti-theft devices prevent unauthorized balance removal
- Dedicated cases for safe transportation

Test weights

For routine testing and calibration of balances:
- Weight sets
- CarePacs
- Weight handling tools

XPR Minimum Weights
What is Your Smallest Sample?

When selecting your balance, it is important to consider the smallest net sample weight that you want to weigh. The balance minimum weight is the smallest load that can be weighed on the balance within the allowed uncertainty. Any loads below the minimum weight may not achieve the required weighing accuracy and cannot be trusted to be correct.

The specific minimum weight for each balance should be determined during installation at its place of operation. XPR's MinWeigh function ensures your samples are always above the determined minimum weight.

Microbalances and Analytical Balances

Minimum Sample Weight[1]	Readability	Model	Weighing range
0.3 mg	0.0001 mg	XPR2U	2.1 g
		XPR6U	6.1 g
0.6 mg	0.0005 mg	XPR6UD5	6.1 g
0.82 mg	0.001 mg	XPR10	10.1 g
1 mg		XPR2	2.1 g
1.2 mg	0.001 mg	XPR36C	32 g
		XPR56C	52 g
1.4 mg	0.001 mg	XPR36	32 g
		XPR56	52 g
2 mg	0.001/0.01 mg	XPR36DR	8.1 g · 32 g
		XPR56DR	11 g · 52 g
6 mg	0.002/0.005 mg	XPR106DUH	41 g · 120 g
8 mg	0.005/0.01 mg	XPR226CDR	121 g · 220 g
10 mg	0.005/0.01 mg	XPR226DR	121 g · 220 g
14 mg	0.01/0.1 mg	XPR105DR	41 g · 120 g
		XPR225DR	121 g · 220 g
	0.01 mg	XPR205	220 g
20 mg	0.01/0.1 mg	XPR205DU	81 g · 220 g
		XPR225DU	121 g · 220 g
41 mg	0.05 mg	XPR205D5	220 g
		XPR305D5	320 g
82 mg	0.1 mg	XPR204	220 g

[1] Typical minimum sample weight according to USP Chapter 41; measurement at ≤5% load.

METTLER TOLEDO helps you select the right balance

Do you know which balance meets your requirements for accuracy, compliance and quality?

Take the worry out of balance selection with our GWP® Recommendation service which is available globally free of charge. GWP® Recommendation considers:

- The smallest net weight to be weighed
- The largest weight to be weighed (including tare)
- The weighing accuracy required
- The environmental conditions and the weighing application

GWP® Recommendation provides documented evidence that the selected balance meets metrological, environmental and regulatory requirements.

▶ **www.mt.com/gwp-recommendation**

Precision Balances

Minimum Sample Weight[1]	Readability	Model	Weighing range
≥120 mg	0.1 mg	XPR404S	410 g
≥140 mg		XPR504S	510 g
≥160 mg	0.1/1 mg	XPR504SDR	←101 g→ 510 g
≥240 mg	0.1 mg	XPR204S	210 g
≥600 mg	0.1 mg	XPR2004SC	2.3 kg
≥820 mg	1 mg	XPR1203S	1.2 kg
≥1 g		XPR303SN	310 g
		XPR303S	310 g
		XPR603S	610 g
		XPR603SN	610 g
≥1.2 g		XPR3003S	3.1 kg
≥1.6 g	0.1 mg	XPR5004SC	5.1 kg
	1/10 mg	XPR603SDR	←120 g→ 610 g
		XPR603SNDR	←120 g→ 610 g
≥2 g	1 mg	XPR5003S	5.1 kg
≥4 g	1 mg	XPR10003SC	10.1 kg
≥6 g	5 mg	XPR3003SD5	3.1 kg
		XPR6003SD5	6.1 kg
≥8 g	1 mg	XPR26003LC	26.1 kg
≥8.2 g	10 mg	XPR1202S	1.2 kg
		XPR2002S	2.1 kg
		XPR4002S	4.1 kg
		XPR6002S	6.1 kg
		XPR8002S	8.1 kg
		XPR10002S	10.1 kg
≥10 g	10/100 mg	XPR6002SDR	←1.2 kg→ 6.1 kg
≥13 g	5 mg	XPR32003LD5C	32.1 kg
≥20 g	10 mg	XPR15002L	15.1 kg
	5 mg	XPR64003LD5C	64.1 kg
≥36 g	10/100 mg	XPR20002LDR	←4.2 kg→ 20.1 kg
	10 mg	XPR64002LC	64.1 kg
	10 mg	XPR64002LC-T	64.1 kg
≥82 g	0.1 g	XPR4001S	4.1 kg
		XPR6001S	6.1 kg
		XPR8001S	8.1 kg
		XPR10001S	10.1 kg
		XPR10001L	10.1 kg
		XPR16001L	16.1 kg
		XPR32001L	32.1 kg
		XPR64001L	64.1 kg
≥820 g	1 g	XPR32000L	32.1 kg
		XPR64000L	64.1 kg

[1] Typical minimum sample weight according to USP Chapter 41; measurement at ≤5% load.

XPR Micro and Micro-Analytical
Technical Specifications

XPR Microbalances
Readability 0.0001 mg / 0.0005 mg

	XPR2U	XPR6U	XPR6UD5
Material number	30279196	30279276	30279285
Maximum capacity	2.1 g	6.1 g	6.1 g
Readability	0.0001 mg	0.0001 mg	0.0005 mg
Repeatability[1] (5% load)	0.00015 mg	0.00015 mg	0.0003 mg
Sensitivity offset, nominal load[1]	0.010 mg	0.018 mg	0.018 mg
Settling time[1]	<10 s	<15 s	<8 s
Minimum weight (k=2, U=1%)[2]	0.03 mg	0.03 mg	0.06 mg
Minimum weight (according to USP)[2]	0.3 mg	0.3 mg	0.6 mg

[1] Typical value
[2] Minimum weight typical at 5% load

Readability 0.001 mg

	XPR10	XPR2
Material number	30279296	30279267
Maximum capacity	10.1 g	2.1 g
Readability	0.001 mg	0.001 mg
Repeatability[1] (5% load)	0.0004 mg	0.0005 mg
Sensitivity offset, nominal load[1]	0.020 mg	0.010 mg
Settling time[1]	<8 s	<8 s
Minimum weight (k=2, U=1%)[2]	0.082 mg	0.1 mg
Minimum weight (according to USP)[2]	0.82 mg	1.0 mg

[1] Typical value
[2] Minimum weight typical at 5% load

XPR Micro-Analytical
Readability 0.001 mg

	XPR36C	XPR36	XPR36DR	XPR56C	XPR56	XPR56DR
Material number	30594503	30594493	30594498	30355547	30355535	30355539
Maximum capacity (full range / fine range)	32 g	32 g	32 g / 8.1 g	52 g	52 g	52 g / 11 g
Readability (full range / fine range)	0.001 mg	0.001 mg	0.01 mg / 0.001 mg	0.001 mg	0.001 mg	0.01 mg / 0.001 mg
Repeatability[1] (5% load)	0.0006 mg	0.0007 mg	0.001 mg	0.0006 mg	0.0007 mg	0.001 mg
Sensitivity offset, nominal load[1]	0.06 mg	0.06 mg	0.08 mg	0.08 mg	0.08 mg	0.08 mg
Settling time[1]	3.5 s	3.5 s	2.5 s	3.5 s	3.5 s	2.5 s
Minimum weight (k=2, U=1%)[2]	0.12 mg	0.14 mg	0.2 mg	0.12 mg	0.14 mg	0.2 mg
Minimum weight (according to USP)[2]	1.2 mg	1.4 mg	2 mg	1.2 mg	1.4 mg	2 mg
Weighing pan type	SmartGrid, Hanging weighing pan	SmartGrid	SmartGrid	SmartGrid, Hanging weighing pan	SmartGrid	SmartGrid

[1] Typical value
[2] Minimum weight typical at 5% load

XPR Analytical
Technical Specifications

XPR Analytical
Readability 0.005 mg / 0.01 mg

	XPR106DUH	XPR226CDR	XPR226DR	XPR205
Material number	30532226	30594507	30594478	30355411
Maximum capacity (full range / fine range)	120 g / 41 g	220 g / 121 g	220 g / 121 g	220 g
Readability (full range / fine range)	0.005 mg / 0.002 mg	0.01 mg / 0.005 mg	0.01 mg / 0.005 mg	0.01 mg
Repeatability[1] (5% load)	0.003 mg	0.004 mg	0.005 mg	0.007 mg
Sensitivity offset, nominal load[1]	0.15 mg	0.25 mg	0.25 mg	0.25 mg
Settling time[1]	4 s	5 s	2 s	2 s
Minimum weight (k=2, U=1%)[2]	0.6 mg	0.8 mg	1 mg	1.4 mg
Minimum weight (according to USP)[2]	6 mg	8 mg	10 mg	14 mg

[1] Typical value
[2] Minimum weight typical at 5% load

	XPR205DU	XPR225DR	XPR225DU	XPR105DR
Material number	30469076	30594483	30594488	30355342
Maximum capacity (full range / fine range)	220 g / 81 g	220 g / 121 g	220 g / 121 g	120 g / 41 g
Readability (full range / fine range)	0.1 mg / 0.01 mg	0.1 mg / 0.01 mg	0.1 mg / 0.01 mg	0.1 mg / 0.01 mg
Repeatability[1] (5% load)	0.007 mg	0.007 mg	0.007 mg	0.007 mg
Sensitivity offset, nominal load[1]	0.4 mg	0.3 mg	0.4 mg	0.25 mg
Settling time[1]	1.5 s	1.5 s	1.5 s	1.5 s
Minimum weight (k=2, U=1%)[2]	2 mg	1.4 mg	1.4 mg	1.4 mg
Minimum weight (according to USP)[2]	20 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]	0.4 mg	0.6 mg	0.4 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

XPR Precision
Technical Specifications

XPR Precision S-Platform
Readability 0.1 mg

	XPR204S	XPR404S	XPR504SDR	XPR504S	XPR2004SC	XPR5004SC
Material number	30315631	30315628	30315239	30315652	30317628	30317640
Maximum capacity (full range/fine range)	210 g	410 g	510/101 g	510 g	2.3 kg	5.1 kg
Readability (full range/fine range)	0.1 mg	0.1 mg	1/0.1 mg	0.1 mg	0.1 mg	0.1 mg
Repeatability[1] (5% load)	0.12 mg	0.06 mg	0.4 mg	0.07 mg	0.3 mg	0.8 mg
Sensitivity offset, nominal load[1]	0.4 mg	0.48 mg	0.3 mg	0.3 mg	6.8 mg	8 mg
Settling time[1]	2 s	2 s	2 s	2 s	3.5 s	3.5 s
Minimum weight (k=2, U=1%)[2]	24 mg	12 mg	16 mg	14 mg	60 mg	160 mg
Minimum weight (according to USP)[2]	240 mg	120 mg	160 mg	140 mg	600 mg	1,600 mg
Weighing pan	SmartPan	SmartPan	SmartPan	SmartPan	SmartPan, Standard pan, LevelMatic	SmartPan, Standard pan, LevelMatic

[1] Typical value
[2] Minimum weight typical at 5% load

Readability 1 mg

	XPR303SN[3]	XPR303S	XPR603SNDR[3]	XPR603SDR	XPR603SN[3]
Material number	30316446	30315753	30316529	30316525	30316540
Maximum capacity (full range/fine range)	310 g	310 g	610/120 g	610/120 g	610 g
Readability (full range/fine range)	1 mg	1 mg	10/1 mg	10/1 mg	1 mg
Repeatability[1] (5% load)	0.5 mg	0.5 mg	0.8 mg	0.8 mg	0.5 mg
Sensitivity offset, nominal load[1]	1.2 mg	1.2 mg	6 mg	6 mg	1.2 mg
Settling time[1]	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s
Minimum weight (k=2, U=1%)[2]	100 mg	100 mg	160 mg	160 mg	100 mg
Minimum weight (according to USP)[2]	1 g	1 g	1.6 g	1.6 g	1 g
Weighing pan	SmartPan	Standard pan, SmartPan	SmartPan	Standard pan, SmartPan	SmartPan

[1] Typical value
[2] Minimum weight typical at 5% load
[3] Supplied without draft shield (available as an accessory)

Readability 1 mg

	XPR603S	XPR1203S	XPR3003S	XPR5003S	XPR10003SC
Material number	30316504	30316563	30316701	30316990	30317641
Maximum capacity	610 g	1,210 g	3.1 kg	5.1 kg	10.1 kg
Readability	1 mg	1 mg	1 mg	1 mg	1 mg
Repeatability[1] (5% load)	0.5 mg	0.4 mg	0.6 mg	1 mg	2 mg
Sensitivity offset, nominal load[1]	1.2 mg	1.5 mg	1.8 mg	3 mg	34 mg
Settling time[1]	1.5 s	1.5 s	2 s	2 s	3.5 s
Minimum weight (k=2, U=1%)[2]	100 mg	82 mg	120 mg	200 mg	400 mg
Minimum weight (according to USP)[2]	1 g	820 mg	1.2 g	2 g	4 g
Weighing pan	Standard pan, SmartPan	Standard pan, SmartPan	Standard pan, SmartPan	Standard pan, SmartPan	SmartPan, Standard pan, LevelMatic

[1] Typical value

[2] Minimum weight typical at 5% load

Readability 5 mg / 10 mg

	XPR3003SD5	XPR6003SD5	XPR1202S	XPR2002S	XPR4002S
Material number	30316705	30316548	30317123	30316996	30317269
Maximum capacity	3.1 kg	6.1 kg	1,210 g	2.1 kg	4.1 kg
Readability	5 mg	5 mg	0.01 g	0.01 g	0.01 g
Repeatability[1] (5% load)	3 mg	3 mg	4 mg	4 mg	4 mg
Sensitivity offset, nominal load[1]	4 mg	5 mg	15 mg	25 mg	25 mg
Settling time[1]	2 s	2 s	1.2 s	1.2 s	1.2 s
Minimum weight (k=2, U=1%)[2]	600 mg	600 mg	820 mg	820 mg	820 mg
Minimum weight (according to USP)[2]	6 g	6 g	8.2 g	8.2 g	8.2 g
Weighing pan	Standard pan, SmartPan	Standard pan, SmartPan	Standard pan, SmartPan	Standard pan, SmartPan	Standard pan, SmartPan

[1] Typical value

[2] Minimum weight typical at 5% load

	XPR6002SDR	XPR6002S	XPR8002S	XPR10002S
Material number	30317458	30317428	30317466	30317433
Maximum capacity	6.1/1.2 kg	6.1 kg	8.1 kg	10.1 kg
Readability	0.1/0.01 g	0.01 g	0.01 g	0.01 g
Repeatability[1] (5% load)	5 mg	4 mg	4 mg	4 mg
Sensitivity offset, nominal load[1]	30 mg	12 mg	12 mg	12 mg
Settling time[1]	1.2 s	1.2 s	1.5 s	1.5 s
Minimum weight (k=2, U=1%)[2]	1 g	820 mg	820 mg	820 mg
Minimum weight (according to USP)[2]	10 g	8.2 g	8.2 g	8.2 g
Weighing pan	Standard pan, SmartPan	Standard pan, SmartPan	Standard pan, SmartPan	Standard pan, SmartPan

[1] Typical value

[2] Minimum weight typical at 5% load

Readability 0.1 g

	XPR4001S	XPR6001S	XPR8001S	XPR10001S
Material number	30317447	30317491	30317511	30317483
Maximum capacity	4.1 kg	6.1 kg	8.1 kg	10.1 kg
Readability	0.1 g	0.1 g	0.1 g	0.1 g
Repeatability[1] (5% load)	40 mg	40 mg	40 mg	40 mg
Sensitivity offset, nominal load[1]	50 mg	50 mg	120 mg	120 mg
Settling time[1]	0.8 s	0.8 s	1 s	1 s
Minimum weight (k=2, U=1%)[2]	8.2 g	8.2 g	8.2 g	8.2 g
Minimum weight (according to USP)[2]	82 g	82 g	82 g	82 g
Weighing pan	Standard pan	Standard pan	Standard pan	Standard pan

[1] Typical value

[2] Minimum weight typical at 5% load

XPR Precision
Technical Specifications

Readability 1 mg / 5 mg

	XPR26003LC	XPR32003LD5C	XPR64003LD5C
Material number	30317642	30317643	30317644
Maximum capacity	26.1 kg	32.1 kg	64.1 kg
Readability	1 mg	5 mg	5 mg
Repeatability[1] (5% load)	4 mg	6.5 mg	10 mg
Sensitivity offset, nominal load[1]	140 mg	140 mg	650 mg
Settling time[1]	8–12 s	8–12 s	8–12 s
Minimum weight (k=2, U=1%)[2]	800 mg	1.3 g	2 g
Minimum weight (according to USP)[2]	8 g	13 g	20 g
Weighing pan	LevelMatic	Standard pan	LevelMatic

[1] Typical value

[2] Minimum weight typical at 5% load

Readability 10 mg

	XPR15002L	XPR20002LDR	XPR64002LC	XPR64002LC-T[3]
Material number	30317522	30317526	30317645	30317646
Maximum capacity (full range/fine range)	15.1 kg	20.1/4.2 kg	64.1 kg	64.1 kg
Readability (full range/fine range)	0.01 g	0.1/0.01 g	0.01 g	0.01 g
Repeatability[1] (5% load)	10 mg	18 mg	18 mg	18 mg
Sensitivity offset, nominal load[1]	12 mg	25 mg	650 mg	650 mg
Settling time[1]	1.5 s	1.5 s	8–12 s	8–12 s
Minimum weight (k=2, U=1%)[2]	2 g	3.6 g	3.6 g	3.6 g
Minimum weight (according to USP)[2]	20 g	36 g	36 g	36 g
Weighing pan	Standard pan, SmartPan	Standard pan, SmartPan	Standard pan	Round pan

[1] Typical value

[2] Minimum weight typical at 5% load

[3] Transportable balance with a carrying case

XPR Precision L-Platform
Readability 0.1–1 g

	XPR10001L	XPR16001L	XPR32001L	XPR64001L	XPR32000L	XPR64000L
Material number	30317530	30317542	30316292	30316477	30316485	30316493
Maximum capacity	10.1 kg	16.1 kg	32.1 kg	64.1 kg	32.1 kg	64.1 kg
Readability	0.1 g	0.1 g	0.1 g	0.1 g	1 g	1 g
Repeatability[1] (5% load)	40 mg	40 mg	40 mg	40 mg	400 mg	400 mg
Sensitivity offset, nominal load[1]	120 mg	200 mg	250 mg	300 mg	320 mg	320 mg
Settling time[1]	1.5 s	1.5 s	1.5 s	1.8 s	1.2 s	1.5 s
Minimum weight (k=2, U=1%)[2]	8.2 g	8.2 g	8.2 g	8.2 g	82 g	82 g
Minimum weight (according to USP)[2]	82 g	82 g	82 g	82 g	820 g	820 g
Weighing pan	Standard pan	Standard pan	Standard pan	Standard pan	Standard pan	Standard pan

[1] Typical value

[2] Minimum weight typical at 5% load

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User Management	11153102
Balance License (2 additional)	11153220

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User Management	

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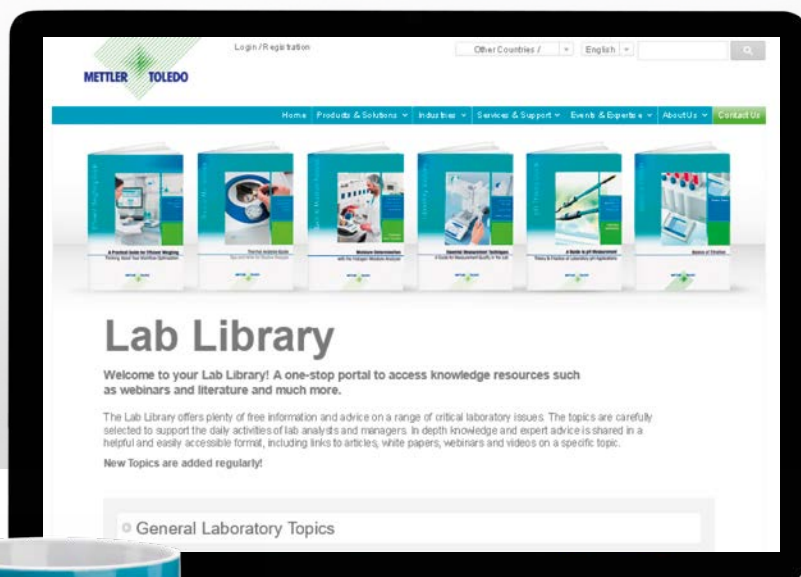- Training
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