XPR Essential Microbalances
Highly Accurate Weighing

Built To Last

High-quality materials and unique design features protect the high-performance load cell and electronics from dust and spills, ensuring years of reliable performance. The smooth surfaces and rounded edges are easy to clean and chemically resistant.

Compact Design

These front-loading balances are one compact unit that can fit easily into crowded bench spaces or fume hoods. The balance display can be placed wherever it's convenient.
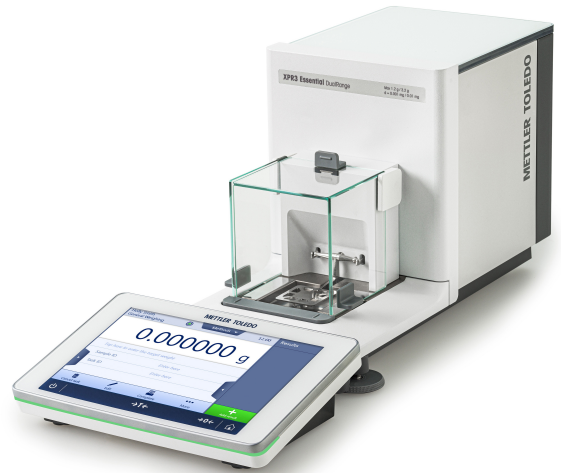
Ergonomic Processes

With one touch, the innovative WingDoors open automatically to the top, giving you full access and visibility into the weighing chamber. The low weighing pan lets you rest your arm on the workbench during dosing.

Data Management

Connect your balance to LabX software to save your results automatically, ensure traceability, and simplify data management. Additionally, technicians can receive step-by-step guidance on the balance display while progress is simultaneously monitored remotely.

Accurate Micro Results
All the Essentials You Need

XPR Essential microbalances have the most critical functions you need for accurate micro weighing results. Our specially designed SmartPan weighing pan provides great stability, ensuring fast results even in a fume hood. The low minimum weight means you can measure micro amounts for big savings.

These microbalances are designed with unique features to make your work easier, keep cleaning and maintenance simple, and ensure years of reliable microbalance performance.

We are committed to protecting the environment, focus on sourcing sustainable materials, and our operations have been carbon neutral since 2020.

METTLER TOLEDO

Technical Specifications

	XPR3DUE	XPR16DUE
Limit values		
Capacity	3.2 g	12 g
Readability	0.01 mg	0.01 mg
Capacity of fine range	1.2 g	3.2 g
Readability in fine range	0.001 mg	0.001 mg
Repeatability (at 5% load)	0.001 mg	0.002 mg
Linearity deviation	0.02 mg	0.03 mg
Typical values		
Repeatability (at 5% load)	0.0008 mg	0.0012 mg
Linearity deviation	0.006 mg	0.01 mg
Sensitivity offset (at nominal load) ▲	0.04 mg	0.06 mg
Minimum weight (USP, tolerance = 0.10%) ▼	1.6 mg	2.4 mg
Minimum weight (tolerance = 1%) ▼	0.16 mg	0.24 mg
Settling time	6 s	6 s
Dimensions and other specifications		
Balance dimensions (W × D × H)	195 × 478 × 196 mm	195 × 478 × 196 mm
Weighing pan dimensions (W × D)	32 × 32 mm	32 × 32 mm

▲ after adjustment with internal weight

▼ determined at 5% load, k = 2

Features

Accurate Results

- High-performance load cell
- FACT automatic internal adjustment
- Compact ionizer connectable (with stand)

Efficient Operation

- 7-inch color touchscreen (glove compatible)
- SmartTrac: dosing guidance on terminal
- SmartPan: hanging weighing pan
- Results notepad
- Storage of SOPs in method library (including sample series and tolerances)
- WingDoors

Quality Assurance

- GWP® Approved: built-in quality assurance monitoring
- MinWeigh: warning function for too small amounts
- StatusLight: indicates balance is ready
- LevelControl: ensures balance is leveled
- Tolerance profiles: Easily switch between balance readabilities
- User management and password protection
- Adjustment and routine test history
- Change history function
- Alibi memory (for approved models only)

Seamless Processes

- LabX™ software compatible
- Calibry Pipette Calibration Software compatible
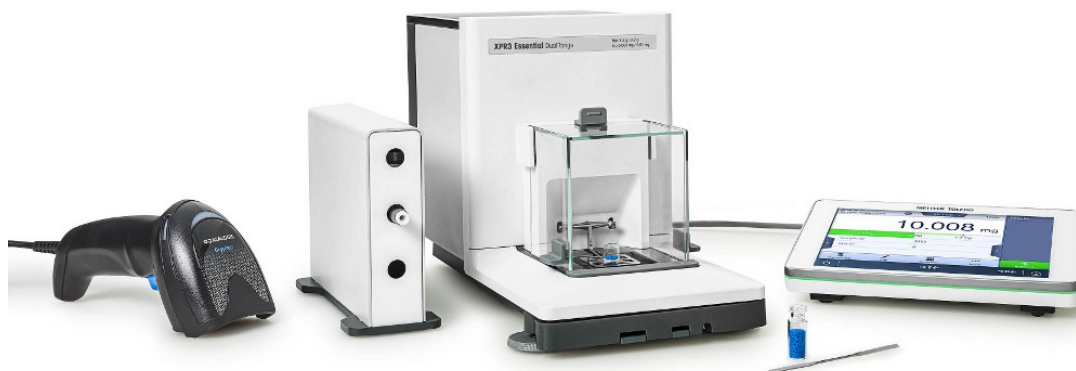- Multiple ports for easy connectivity and data export: 3 × USB-A, 1 × LAN, 1 × USB-B

Sustainable Value

- Compact design with small footprint
- Optimized draft shields for easy cleaning
- Overload protection for load cell
- Carbon neutral operations

Accessories

Enhance performance, improve ergonomics, and handle your data efficiently with our wide range of accessories, including compact external ionizers, test weights, motion sensors, or printers.

▶ www.mt.com/lab-accessories

LabX™ Laboratory Software

Connect your balance to LabX™ software for a fully integrated data handling solution:

- SOP guidance on the balance terminal
- Automatic data handling and calculations
- Easy data access and documentation
- Complete process and results traceability
- Centralized management of multiple instruments

▶ www.mt.com/labx-balance

www.mt.com/XPR-Essential-micro

For more information

30946012