XPR Microbalances
Best-in-Class Weighing

Superior Weighing Cell

With decades of experience in designing state-of-the-art weighing solutions, our microbalances and ultra-microbalances deliver exceptional repeatability with up to seven decimal place readability. These balances provide the highest level of performance to accurately weigh your most valuable samples.

Compact Design, Two Terminals

XPR microbalances have the most compact design on the market, and two terminals for maximized ease-of-use. Our Active Temperature Control technology diverts heat to the back of the balance, ensuring a stable weighing chamber temperature.

Easy Cleaning

The weighing chamber features smooth surfaces, complemented by a removable pan and drip tray for easy routine cleaning. The weighing cell is equipped with overload protection, which prevents damage even if too much pressure is applied on the weighing pan during cleaning.

Audit-Proof Results – Every Time

Innovative quality assurance functions actively monitor the status of your balance and are your reassurance of accurate, repeatable, and valid results. Fulfill regulatory and data integrity requirements efficiently with LabX™ laboratory software.

Taking Weighing to the Limit
For Your Most Precious Samples

XPR microbalances and ultra-microbalances offer an unparalleled level of accuracy and speed with impressively low minimum weights. Their compact design not only enhances performance but also contributes to sustainability by minimizing raw material usage.

The two-terminal concept simplifies operation: The main terminal can be placed wherever it is most convenient and the SmartView terminal sits above the weighing chamber – right where you need it, with all the basic functions immediately available as you perform your weighing tasks.

XPR microbalances take the worry out of weighing in the micro-range with active quality assurance features that ensure you get valid results – every time.

Designed, engineered and manufactured in Switzerland for outstanding quality you can trust.

METTLER TOLEDO

XPR Microbalances and Ultra-Microbalances

Limit Values	XPR2U	XPR3	XPR6UD5	XPR6U	XPR10	XPR10U
Maximum capacity	2.1 g	3.1 g	6.1 g	6.1 g	10.1 g	10.1 g
Readability	0.0001 mg	0.001 mg	0.0005 mg	0.0001 mg	0.001 mg	0.0001 mg
Repeatability (5% load) (sd)	0.0002 mg	0.0008 mg	0.0005 mg	0.00025 mg	0.0006 mg	0.0004 mg
Linearity deviation	0.0015 mg	0.004 mg	0.004 mg	0.004 mg	0.004 mg	0.004 mg
Eccentricity (test load)[1]	0.0025 mg (1 g)	0.003 mg (1 g)	0.003 mg (2 g)	0.002 mg (2 g)	0.005 mg (5 g)	0.003 mg (5 g)
Sensitivity offset (test weight)	0.030 mg (2 g)	0.045 mg (2 g)	0.048 mg (6 g)	0.048 mg (6 g)	0.060 mg (10 g)	0.05 mg (10 g)
Typical Values						
Repeatability (5% load) (sd)	0.00015 mg	0.0005 mg	0.0003 mg	0.00015 mg	0.0004 mg	0.0003 mg
Linearity deviation	0.0005 mg	0.0012 mg	0.0012 mg	0.0012 mg	0.0012 mg	0.001 mg
Sensitivity offset (test weight)	0.015 mg (2 g)	0.025 mg (2 g)	0.018 mg (6 g)	0.018 mg (6 g)	0.040 mg (10 g)	0.030 mg (10 g)
Minimum weight (5% load, k=2, U=1%)	0.03 mg	0.1 mg	0.06 mg	0.03 mg	0.082 mg	0.06 mg
USP minimum weight (5% load, k=2, U=0.10%)	0.3 mg	1 mg	0.6 mg	0.3 mg	0.82 mg	0.6 mg
Settling time	< 10 s	< 8 s	< 8 s	< 10 s	< 8 s	< 15 s
Dimensions						
Balance dimensions (W × D × H)	123 × 356 × 180 mm					
Weighing pan diameter	16 mm	27 mm	27 mm	16 mm	27 mm	16 mm
Usable height of draft shield	55 mm					

[1] according to OIML R76

AntiStatic Kit

Filter Kit

Selected Key Accessories	Part No.
AntiStatic Kit Microbalance: Includes one stand and one Compact Electrode (USB)	30499859
Compact Electrode: Optional second electrode for AntiStatic Kit Microbalance (USB)	30496446
Filter Kit: Suitable for 47 and 70 mm filters, includes tweezers	30300922
Filter Pan: Suitable for 50 mm filters	211214
ErgoSens: Motion sensor for touchless operation (USB connection)	30300915
Footswitch: Foot pedal for remote operation (USB connection)	30312558
Tubular sample holder: Including holder, pan and handler	30113498
Spatula Set Micro: Set of 2 stainless steel spatulas	30064490
Weighing table	11138044

▶ **www.mt.com/lab-accessories**

Features	
Accurate Results	Active Temperature Control system (ATC™)
	High resolution electromagnetic force compensation (EMFC) weighing sensor
	Compact ionizer ready (with stand)
	FACT Automatic Internal Adjustment
Efficient Operation	Storage of methods and sample series
	SmartTrac: dosing guidance on terminal
	Results notepad
	7-inch color touchscreen (glove compatible)
	Storage of SOPs in method libary (including sample series and tolerances)
Quality Assurance	GWP® Approved built-in quality assurance monitoring
	Tolerance profiles: easily switch between balance readabilities
	User management and password protection
	Change history function
	StatusLight: indicates the balance is ready for use
	LevelControl: notifies users if balance is not level
	Adjustment and routine test history
	MinWeigh: warning function for low measurements
	Alibi memory (for approved models only)
Seamless Processes	Efficient operation with 2 terminal system
	Easy data export via connectivity ports: 3xUSB-A, 1xUSB-B, 1×LAN
	Web service
	LabX™ software compatible
Sustainable Value	Compact design with small footprint
	Optimized draft shield for easy cleaning
	Overload protection
	Carbon neutral operations

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For more information