MX Analytical Balances
Fast and Accurate

Fast and Accurate Weighing

The high-resolution load cell delivers accurate and reliable results and offers readability as low as 0.01 mg. With the SmartPan, the balance stabilizes quickly, even in turbulent environments, enabling fast and efficient weighing.

GxP-Compliant Documentation

Comply with GxP guidelines with automatic data logging and user management. Transfer data to printer or computer for complete and error-free documentation.
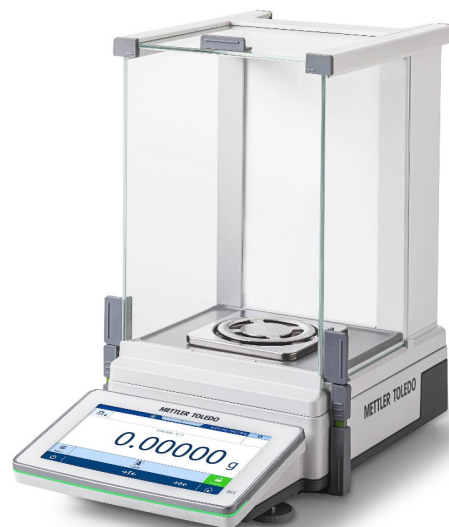
Guaranteed Valid Results

StatusLight provides information on the balance status, so you can easily see if the prerequisites for valid results have been fulfilled. The status is included in the logged data together with the weighing results.

Sustainable Design

High-quality materials and robust construction ensure a long balance lifetime, providing an overall low cost of ownership. Designed with sustainability in mind, including a power-saving mode, MX balances are efficient and economical in operation.

Smart Features
For Advanced Requirements

The superior load cell, quality assurance functions, and multiple connectivity options combine to satisfy higher demands for accuracy, compliance, and efficiency. Easily integrated into your existing laboratory infrastructure, these balances have a multitude of smart features to make your weighing processes fast, convenient, and efficient.

Define your own routine testing schedule on the balance according to your internal quality requirements and process tolerances. Your balance will remind you when tests are due to be sure your results remain accurate in the intervals between calibrations.

METTLER TOLEDO

Technical Specifications

	MX105	MX105DU	MX205DU
Limit values			
Capacity	120 g	120 g	220 g
Readability	0.01 mg	0.1 mg	0.1 mg
Capacity of fine range	–	42 g	82 g
Readability in fine range	–	0.01 mg	0.01 mg
Repeatability (at 5% load)	0.02 mg	0.02 mg	0.02 mg
Linearity deviation	0.1 mg	0.2 mg	0.2 mg
Sensitivity offset (at nominal load) ▲	0.4 mg	0.4 mg	0.8 mg
Typical values			
Repeatability (at 5% load)	0.0125 mg	0.0125 mg	0.0125 mg
Linearity deviation	0.06 mg	0.06 mg	0.06 mg
Sensitivity offset (at nominal load) ▲	0.2 mg	0.25 mg	0.4 mg
Minimum weight (USP, tolerance = 0.10%) ▼	25 mg	25 mg	–
Minimum weight (tolerance = 1%) ▼	2.5 mg	2.5 mg	2.5 mg
Settling time	2 s	2 s	2 s
Dimensions and other specifications			
Balance dimensions (W × D × H)	222 × 379 × 353 mm	222 × 379 × 353 mm	222 × 379 × 353 mm
Weighing pan dimensions (W × D)	–	–	–
Weighing pan diameter	80 mm	80 mm	80 mm

▲ after adjustment with internal weight

▼ determined at 5% load, k = 2

All models are available as approved versions.

	MX104	MX204	MX304
Limit values			
Capacity	120 g	220 g	320 g
Readability	0.1 mg	0.1 mg	0.1 mg
Repeatability (at 5% load)	0.1 mg	0.1 mg	0.1 mg
Linearity deviation	0.2 mg	0.2 mg	0.3 mg
Sensitivity offset (at nominal load) ▲	0.6 mg	0.8 mg	1 mg
Typical values			
Repeatability (at 5% load)	0.05 mg	0.05 mg	0.05 mg
Linearity deviation	0.06 mg	0.06 mg	0.06 mg
Sensitivity offset (at nominal load) ▲	0.4 mg	0.5 mg	0.6 mg
Minimum weight (USP, tolerance = 0.10%) ▼	100 mg	100 mg	100 mg
Minimum weight (tolerance = 1%) ▼	10 mg	10 mg	10 mg
Settling time	2 s	2 s	2 s
Dimensions and other specifications			
Balance dimensions (W × D × H)	222 × 379 × 353 mm	222 × 379 × 353 mm	222 × 379 × 353 mm
Weighing pan dimensions (W × D)	–	–	–
Weighing pan diameter	90 mm	90 mm	90 mm

▲ after adjustment with internal weight

▼ determined at 5% load, k = 2

All models are available as approved versions.

Features

Performance

- MonoBloc weighing cell
- FACT automatic internal adjustment

Efficient Operation

- 7'' touchscreen
- 8 built-in applications
- Statistical data analysis
- ErgoDoor
- Backlit draft shield

Quality Assurance

- OIML/NTEP approved
- User management
- Leveling assistant
- Configurable sample and task IDs
- Activity log
- StatusLight
- Configurable routine tests

Data Management

- 3 interfaces: USB-A, USB-C, Ethernet
- Bluetooth option
- Advanced reporting

- Drop-to-cursor
- MT-SICS
- EasyDirect Balance software

Sustainable Value

- Full metal housing
- Overload protection
- Power-saving mode
- Easy-to-clean QuickLock draft shield

Accessories

Enhance performance, improve ergonomics, and handle your data efficiently with our wide range of accessories, including EasyDirect Balance data management software, printers, weights, density kit, and Bluetooth adapter.

For further information on accessories, please visit our web page.

▶ www.mt.com/lab-accessories

www.mt.com/MX-analytical

For more information

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