

MR Analytical Balances

Robust and Reliable



Designed for Convenience

Advanced technologies, including automatic adjustment and guided leveling, simplify daily weighing. Solidly built with smooth surfaces and rounded edges, cleaning is easy.



Easy Integration

Multiple interfaces and MT-SICS commands make it simple to connect your MR balance to PLC and MES systems as well as other lab instruments.



User Management

By setting up different user groups and profiles, operators see just the functions and applications they need to carry out their tasks, simplifying processes and reducing errors.



Easy-to-Clean

These balances are built with high-quality materials and have been designed to have smooth surfaces and rounded edges that are quick and easy to clean. The QuickLock draft shield removes in one easy step and the drip tray simply slides out. All parts are dishwasher safe.



Your Weighing Partner

For All Environments

These reliable balances deliver consistently accurate results even in the toughest weighing environments. Built-in applications and multiple connectivity options make these durable balances highly versatile whether you're in the lab or out on the factory floor.

The full metal housing and durable components are tested in the harshest environments to ensure protection against dirt and chemicals. The overload protection safeguards the weighing cell against excess loads and accidental drops on the weighing pan.

METTLER **TOLEDO**

Technical Specifications



	MR104	MR204	MR304
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	0.2 mg
Sensitivity offset (at nominal load) ▲	0.5 mg	0.8 mg	1 mg
Typical values			
Repeatability (at 5% load)	0.08 mg	0.08 mg	0.08 mg
Linearity deviation	0.06 mg	0.06 mg	0.06 mg
Sensitivity offset (at nominal load) ▲	0.3 mg	0.5 mg	0.6 mg
Minimum weight (USP, tolerance = 0.10%) ▼	160 mg	160 mg	160 mg
Minimum weight (tolerance = 1%) ▼	16 mg	16 mg	16 mg
Settling time	2 s	2 s	2 s
Dimensions and other specifications			
Balance dimensions (W × D × H)	209 × 351 × 354 mm	209 × 351 × 354 mm	209 × 351 × 354 mm
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

- Electromagnetic Force Compensation (EMFC) weighing cell
- FACT automatic internal adjustment

Efficient Operation

- 4.5" touchscreen
- 9 built-in applications
- Statistical data analysis

Quality Assurance

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

Data Management

- 4 interfaces: USB-A, USB-C, RS232, Ethernet
- Bluetooth option
- Advanced reporting

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

Sustainable Value

- Full metal housing
- IP41 (0.1 mg models)
- Overload protection
- Power-saving mode
- Easy-to-clean QuickLock draft shield

Power Consumption

Instrument Steady State	Approx. Power Consumption (W)*
Operational Mode	2.2
Standby Mode	2.1
Power Saving Mode	0.5

*Test results conducted by METTLER TOLEDO under ideal conditions.

Operational Mode = Default balance settings



Applications

- Weighing
- Piece Counting
- Density Determination
- Backweighing
- Formulation
- Check Weighing
- Totaling
- Dynamic Weighing
- Statistics



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



Professional Service

With a professional installation, your balance is expertly set up to deliver accurate results from day one.

To learn more about our service offerings, scan the QR code or visit our website:

▶ www.mt.com/professional-service



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