

# MA Analytical Balances

## Efficient and Simple



### Simple Operation

The large, bright screen is easy to read, while on-screen instructions guide you through each weighing procedure. Calculations are performed automatically and it's simple to print out results or transfer them to a storage device.



### Multiple Interfaces

Thanks to the USB-A and RS232 interfaces, you can transfer your weighing data quickly and without error to a printer or a computer or connect to a USB storage device for simple data transfer.



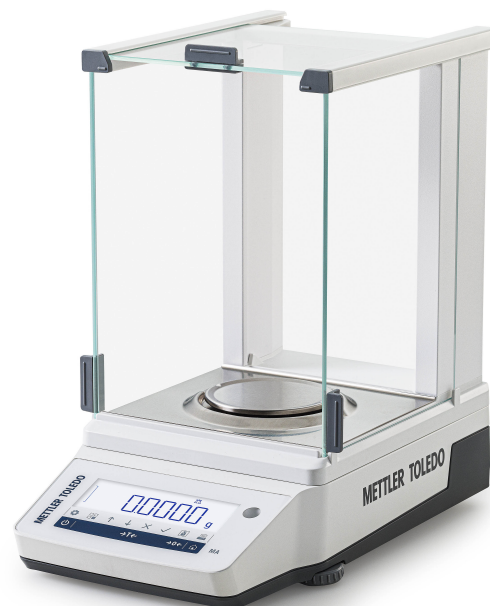
### Trusted Performance

With proven weighing technologies and built-in adjustment using the internal test weights, you can trust your results to be consistent and precise.



### Built to Last

Thanks to high-quality materials and solid construction, these balances are highly resilient. Even with intensive use in challenging weighing environments, you can depend on many years of reliable service.



## Easy Everyday Weighing For Your Routine Tasks

You can rely on accurate results with these high-quality balances that are intuitive to operate and easy to clean. Built-in applications provide simple instructions, while automatic calculations and electronic data transfer minimize errors and make documentation easy.

The bright LCD screen provides excellent readability, while the glass surface resists wear and tear and is easy to clean. The touch keys make it simple to operate the balance and navigate through the menus in the user interface.

**METTLER TOLEDO**

## Technical Specifications



	MA55	MA95	MA155DU
<b>Limit values</b>			
Capacity	52 g	92 g	152 g
Readability	0.01 mg	0.01 mg	0.1 mg
Capacity of fine range	–	–	62 g
Readability in fine range	–	–	0.01 mg
Repeatability (at 5% load)	0.03 mg	0.03 mg	0.03 mg
Linearity deviation	0.1 mg	0.1 mg	0.2 mg
Sensitivity offset (at nominal load) ▲	0.4 mg	0.4 mg	0.8 mg
<b>Typical values</b>			
Repeatability (at 5% load)	0.015 mg	0.015 mg	0.015 mg
Linearity deviation	0.03 mg	0.03 mg	0.06 mg
Sensitivity offset (at nominal load) ▲	0.25 mg	0.25 mg	0.5 mg
Minimum weight (USP, tolerance = 0.10%) ▼	30 mg	30 mg	30 mg
Minimum weight (tolerance = 1%) ▼	3 mg	3 mg	3 mg
Settling time	4 s	4 s	4 s
<b>Dimensions and other specifications</b>			
Balance dimensions (W × D × H)	209 × 354 × 354 mm	209 × 354 × 354 mm	209 × 354 × 354 mm
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.



	MA54	MA104	MA204
<b>Limit values</b>			
Capacity	52 g	120 g	220 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) ▲	0.3 mg	0.5 mg	0.8 mg
<b>Typical values</b>			
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) ▲	0.15 mg	0.3 mg	0.5 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
<b>Dimensions and other specifications</b>			
Balance dimensions (W × D × H)	209 × 354 × 354 mm	209 × 354 × 354 mm	209 × 354 × 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. Models without internal test weights are also available (ExCal).

## Features

### Performance

- Electromagnetic Force Compensation (EMFC) weighing cell
- Internal adjustment

### Efficient Operation

- LCD hybrid touchscreen
- 11 built-in applications
- Statistical data analysis
- Hook for weighing below the balance
- Plug & Play

### Quality Assurance

- OIML/NTEP approved
- Front level indicator
- Sample ID

### Data Management

- 2 interfaces: USB-A, RS232
- Bluetooth option
- Transfer weight function for easy data transfer
- MT-SICS
- EasyDirect Balance software

### Sustainable Value

- Metal base, PBT top housing
- Overload protection
- Easy-to-clean QuickLock draft shield

## Power Consumption

Instrument Steady State	Approx. Power Consumption (W)*
Operational Mode	1.2
Standby Mode	1.0

\*Test results conducted by METTLER TOLEDO under ideal conditions.

Operational Mode = Default balance settings



## Applications

- Weighing
- Piece Counting
- Density Determination
- Formulation
- Dynamic Weighing
- Check Weighing
- Totaling
- Percent Weighing
- Factor Weighing
- Statistics
- Interval Weighing



## Accessories

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

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

► [www.mt.com/lab-accessories](http://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](http://www.mt.com/professional-service)



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