

# ME Analytical Balances

## Everyday Essentials



### High Quality Weighing Cell

With METTLER TOLEDO's EMFC weighing cell, you can be sure of accurate and reliable performance. The high stability provides fast results so you can get your tasks done quickly and with confidence.



### Convenient Levelling

Levelling your balance is easy thanks to the large adjusting feet. The level indicator is at the front so it is easy to check the level and ensure your balance is working accurately.



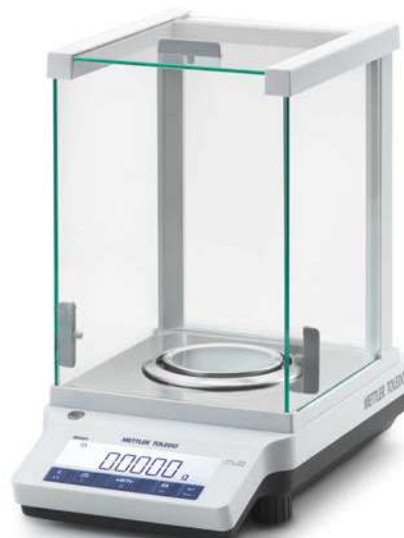
### Made for Intense Use

With a metal base, stainless steel weighing pan and overload protection, these balances can withstand intense use in tough environments. Smooth surfaces and rounded edges make them easy to clean and maintain.



### Built-In Adjustment

Maintain accuracy without external calibration weights. Internal test weights make it simple for you to test and adjust your balance at any time with just the touch of a button.



### All the Basic Functions You Need For Everyday Weighing

ME analytical balances offer you all the essential functionalities you need to carry out your daily weighing tasks accurately and efficiently. One-touch balance adjustment and robust construction mean you can be sure of consistently reliable results, day after day.

High quality components, practical features and an affordable price tag make ME analytical balances an essential in every laboratory.

# ME Analytical Balances — Model Overview

Technical Specifications	ME54	ME104	ME204
<b>Limit Values</b>			
Capacity	52 g	120 g	220 g
Readability	0.1 mg	0.1 mg	0.1 mg
Repeatability	0.1 mg	0.1 mg	0.1 mg
Linearity deviation	0.2 mg	0.2 mg	0.2 mg
<b>Typical Values</b>			
Repeatability	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) <sup>1)</sup>	0.5 mg	0.6 mg	0.8 mg
Minimum weight (USP, tolerance = 0,10%) <sup>2)</sup>	160 mg	160 mg	160 mg
Minimum weight (tolerance = 1%) <sup>2)</sup>	16 mg	16 mg	16 mg
Settling time	2 s	2 s	2 s
<b>Dimensions</b>			
Weighing Pan (mm)	∅ 90	∅ 90	∅ 90
Balance Size, W × D × H (mm)	210 × 344 × 344	210 × 344 × 344	210 × 344 × 344

All models are available as Legal for Trade versions. Models without internal test weights are also available (ExCal).

<sup>1)</sup> after adjustment with internal weight

<sup>2)</sup> determined at 5% load, k = 2

## Features

<b>Accurate Results</b>	Electromagnetic Force Compensation (EMFC) weighing cell Internal adjustment OIML/NTEP approved
<b>Efficient Operation</b>	Bright and clear LCD display Menu protection Date and time Secondary display option Front level indicator 16 weighing units Hook for weighing below the balance 10 built-in applications
<b>Quality</b>	Metal base Stainless steel platform and pan Overload protection Small footprint
<b>Connectivity</b>	RS232 interface Bluetooth option Built-in PC direct function for easy data transfer



## Applications

Formulation, Totalling, Dynamic Weighing, Piece Counting, Density Determination, Percent Weighing, Check Weighing, Statistics, Multiplication Factor, Division Factor

## Accessories



**RS-P25 Printer**  
Ensure accurate documentation.



**Density Kit**  
For quick and easy determination of solid samples.



**Bluetooth Adapter**  
Wirelessly transfer data between the balance and a printer or PC.



**CarePac Test Weights**  
Routine testing with just two weights ensures ongoing accuracy.



**Protective Cover**  
Extra protection against dust and dirt.

**METTLER TOLEDO Group**  
Laboratory Weighing  
Local contact: [www.mt.com/contacts](http://www.mt.com/contacts)

[www.mt.com/me-analytical](http://www.mt.com/me-analytical)

For more information

Subject to technical changes  
© 03/2020 METTLER TOLEDO. All rights reserved  
30567499A  
Group MarCom RITM624386 MB

# For Your Essential Needs Worry-Free Weighing



### Easy to Use

Ten embedded applications including checkweighing, totaling and formulation allow operators to start working right away. Sample IDs and passcode protection make sure settings are not changed by unauthorized personnel.



### Accuracy Ensured

An Electromagnetic Force Compensation (EMFC) weighing cell with FACT technology automatically adjusts the balance whenever there is a change in ambient temperature, ensuring your results remain accurate and reliable. Built-in overload protection helps to ensure long balance life.



### Intuitive Touch Operation

The unit's bright 4.5" color TFT touchscreen with clear icons and intuitive guidance enables users to operate it quickly—even while wearing cloth or rubber gloves. Multilingual text and graphics walk you through every step of your weighing procedures.



### Easy Data Handling

Multiple interfaces support barcode reader, printer and PC connections for easy traceability and data handling. USB and RS232 connectivity along with an optional Bluetooth adapter simplify data upload and transfer.



## ME-T Analytical Balances Essential Functionality, Solid Performance

Every lab needs a balance that combines essential weighing functions with ease of use to deliver accurate, reliable results day after day.

METTLER TOLEDO's ME-T analytical balance is ideal for your lab's sensitive yet routine weighing procedures. An intuitive touchscreen makes daily tasks as simple as possible while built-in features give operators everything they need to weigh with the accuracy, repeatability and traceability required.

The metal base and a high quality finish make ME-T robust enough for tough environments and the smooth surfaces make it easy to clean. This precise scale is built to perform—and last!

# ME-T Analytical Balances, 0.1 mg Readability

Technical Specifications	ME54T	ME104T	ME204T
<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
<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)	0.1 mg (50 g)	0.2 mg (100 g)	0.24 mg (200 g)
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</b>			
Weighing pan (mm)	∅ 90	∅ 90	∅ 90
Balance size, W × D × H (mm)	210 × 344 × 344	210 × 344 × 344	210 × 344 × 344

Models without internal test weights are also available (ExCal).



## Features

Accurate Results	Efficient Operation	Quality	Connectivity
<ul style="list-style-type: none"> <li>• Electromagnetic Force Compensation (EMFC)</li> <li>• FACT internal adjustment or external calibration</li> <li>• Metal base</li> <li>• OIML/NTEP approved</li> </ul>	<ul style="list-style-type: none"> <li>• Bright 4.5" color TFT touchscreen</li> <li>• 10 built-in applications</li> <li>• Front level indicator</li> <li>• Statistical data analysis</li> <li>• Overload protection</li> </ul>	<ul style="list-style-type: none"> <li>• Input of up to 4 sample IDs</li> <li>• Passcode protection</li> <li>• 15 available languages</li> </ul>	<ul style="list-style-type: none"> <li>• 3 interfaces: USB device, USB host, RS232</li> <li>• Bluetooth option</li> <li>• Built-in PC direct function for easy data transfer</li> </ul>

## Accessories

### RS P25 Printer



Fast, high quality printouts on paper, self-adhesive labels and continuous self-adhesive paper (including barcodes).

### Bluetooth Adapter



Wirelessly send data between the balance and a PC, tablet or printer. No additional software needed.

### SmartPrep™



Single-use, antistatic funnels enable safe and fast weighing-in of powders. Simply weigh, transfer and rinse.

### Density kit



Dedicated kit for determining the density of solid and liquid substances with the built-in application.

### U-electrode



The freestanding U-Electrode removes electrostatic charges on samples and containers.

For further information on accessories, please visit

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

### METTLER TOLEDO Group

Laboratory Weighing  
Local contact: [www.mt.com/contacts](http://www.mt.com/contacts)

Subject to technical changes  
© 03/2020 METTLER TOLEDO. All rights reserved  
30272248B  
Group MarCom 2322 MC/MA

[www.mt.com/met-analytical](http://www.mt.com/met-analytical)

For more information