Classic Balances

NewClassic MS
Semi-Micro Balances

Precise Results

Efficient Handling

Space Saving

Immediate Results – Lasting Value

Swiss Weighing

METTLER TOLEDO

Weighing Convenience
In the Best Swiss Tradition

Swiss quality is a synonym for precise results and top product quality. For us at METTLER TOLEDO, that also includes functionality and ease-of-use.

The NewClassic MS Semi-Micro balances incorporate every one of these aspects. The HRT weighing cell is made in Switzerland, for results that are guaranteed precise and dependable. The clever ErgoDoor draft shield saves time: you can simultaneously open the door with one hand, while using the other to place your sample. An intuitive user interface with intelligent menu guidance makes operating the balance a breeze.

Precise Results

The Swiss high-precision weighing cell from METTLER TOLEDO guarantees constant accuracy and precise results over the entire weighing range.

Efficient Handling

Clever ErgoDoors, easy cleaning thanks to the QuickLock draft shield, intuitive operation in your language, and a variety of built-in functions – it all adds up to efficient weighing.

Space Saving

Save space: the balance needs 30% less operational space thanks to an intelligent design.

Versatile in Use

Here is the ideal balance for every laboratory weighing task, be it in process or quality control, density determination or formulation.

Designed for Ease of Use

Designed for You
Right Down to the Last Detail

Time is money – so everything that accelerates your laboratory workflow will bring savings, provided it does not mean compromising on quality. Speed of working is about more than balance stabilization time. In fact, every little detail counts.

Quickly set the date or change the language? Open the door and place the weighing sample with a single action? Dismantle the draft shield to clean each glass panel? No problem – the NewClassic helps to make more efficient use of your time.

Precise Results

The METTLER TOLEDO HRT (HiRes Technology) includes two built-in weights. Together with FACT (Fully Automatic Calibration Technology), this allows the balance to automatically perform adjustment and linearization.

Efficient Handling with ErgoDoor

Reduce the number of movements needed for every weighing. Open the draft shield ErgoDoor with one hand and simultaneously place the weighing sample with your other hand.

Space Saving

Save working space thanks to split draft shield doors that do not project beyond the balance, and sideways mounted connectors at the back of the balance.

Quick and Easy Cleaning
Cleaning has never been this easy: dismantle the QuickLock draft shield in a few short steps, then wash all glass panels and the drip tray in the dishwasher.

Convenient Leveling
The adjustable feet and clearly visible level indicator are located at the front of the balance for easy leveling.

Built-in Functions Save Time
Operate the balance in your own language; quickly access the pre-programmed applications via SmartKeys; work GLP/GMP compliant with the built-in date and time function.

Error-free Reading
Read the large brilliant numbers from the clear High Contrast Display (HCD) without any difficulties, even from a distance or at an awkward angle.

Robust and Durable
The robust housing reliably protects the weighing sensor. It is also resistant to most chemicals, including acetone.

A Complete Picture
Product, Services, and Accessories

Our strength is based on product innovation, but also on a worldwide network of over 2500 experienced service technicians.

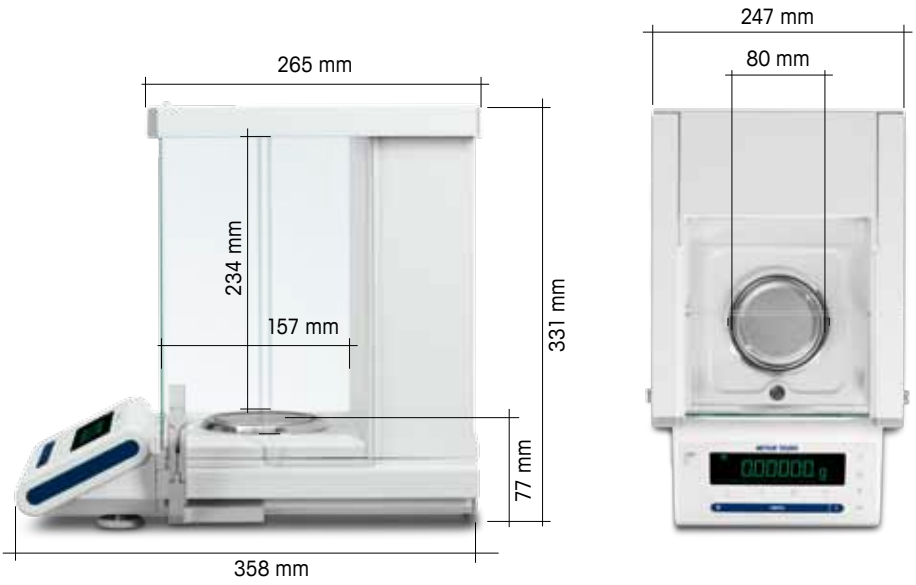
We support you on-line and onsite with a comprehensive range of accessories and services, and share with you our expertise in weighing technology. In our daily business we assure the optimal quality of your weighing results and undertake our best to achieve a long service life for your balances. At METTLER TOLEDO we continuously work on extending our range of accessories, supporting you in optimizing your process efficiency. Printers, secondary displays, density kits, or anti-theft devices are just a few examples. Check out our comprehensive list of weighing aids at www.mt.com/newclassic – and find a solution for all your needs.

Service

World's largest service network
Working with our weighing equipment gives you access to METTLER TOLEDO worldwide network of local service and training, providing you with professional support in a timely and efficient manner.

Installation & Calibration
Take advantage of METTLER TOLEDO's modular selection of standard service agreements, guaranteeing optimal performance and ensuring that your weighing equipment continues to deliver precise and reliable results.

Self-maintenance
Adapted to the NewClassic's self-diagnostics function, we offer you a set with relevant weights and Standard Operating Procedures (SOP) allowing you to achieve sustained balance uptime.



Limit values	MS105	MS105DU	MS205DU	MS204
Maximum capacity	120 g	120 g	220 g	220 g
Maximum capacity (fine range)	–	42 g	82 g	–
Readability	0.01 mg	0.1 mg	0.1 mg	0.1 mg
Readability (fine range)	–	0.01 mg	0.01 mg	–
Repeatability (at nominal load) [1]	0.04 mg (100 g)	0.08 mg (100 g)	0.08 mg (200 g)	0.09 mg (200 g)
Repeatability (at low load) [1]	0.02 mg (20g)	–	–	0.07 mg (20g)
Repeatability (fine range) [1]	–	0.03 mg (40 g)	0.05 mg (80 g)	–
Repeatability (fine range at low load) [1]	–	0.02 mg (20g)	0.02 mg (20g)	–
Linearity deviation	0.1 mg	0.15 mg	0.2 mg	0.2 mg
Sensitivity offset [2]	0.4 mg (100 g)	0.4 mg (100 g)	0.8 mg (200 g)	0.8 mg (200 g)
Typical values				
Minimum weight (according to USP)	45 mg	45 mg [3]	45 mg [3]	150 mg
Minimum weight (@ U=1%, 2 sd)	3 mg	3 mg [3]	3 mg [3]	10 mg
Linearity deviation (within 10g)	0.02 mg	0.02 mg	0.02 mg	–

[1] Standard deviation (sd) [2] Stability of sensitivity with FACT self-adjustment switched on [3] at fine range

HRT Weighing Cell
With two built-in weights, for constant accuracy over the entire weighing range

FACT
Fully automatic time- and temperature-controlled internal adjustment

Diagnostics
Easy running of balance diagnostics tests e.g. keypad test, repeatability test

ErgoDoor
The right door can be opened from the left side and vice versa

SmartTrac
Shows how much of the entire weighing range has been used

Smart Key
Programmable keys for shortcut acces to preferred applications

QuickLock
Fast and convenient dismantling of the draft shield

Connectivity
RS232 to connect to PC, printer or bar code reader; USB to connect to PC

Protection of main balance configurations against manipulation

Protective Cover
Protects the balance from stains and scratches

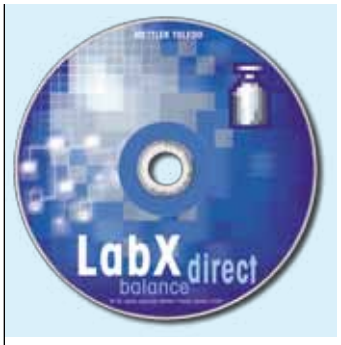
OIML
Approved versions of all models available

Accessories

RS-P25, RS-P26, RS-P28 Printer
The fastest way to generate and archive GLP/GMP compliant weighing data results.

Density Kit
Density determination becomes easy with METTLER TOLEDO's density kit for analytical and precision balances. It is ideal for solids, liquids, porous and viscous substances.

ErgoSens
Optional, freely placeable, individually configurable – for touch-free operation of the balance from a distance. Available also as a footswitch.



LabX direct balance
PC Software for easy data transfer to standard computer programs (e.g. Microsoft™ Excel): weight plus date and time, as well as unit and sample IDs via a barcode reader.

Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.