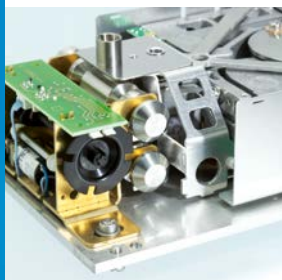


MS Semi-Microbalances

0.01 mg and 0.1 mg



Precise Results

The High Resolution Technology (HRT) weighing cell provides up to 5-place readability. With two built-in weights, combined with FACT (fully automatic time and temperature-controlled internal adjustment), the balance carries out adjustment and linearization automatically.



Efficient Handling

Reduce the number of movements needed for every weighing. E.g. open the draft shield ErgoDoor with your left hand whilst dosing your sample with the right.



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.



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.



Designed for You Right Down to the Last Detail

Whether you are carrying out a simple routine task or a complicated weighing procedure, every little detail has been thought about to ensure your weighing tasks are comfortable and efficient so that you can maximize your productivity.

MS semi-micro balances provide you with fast settling times and consistently reliable results. The Swiss high precision HRT weighing cell guarantees accuracy over the entire weighing range. The built-in date and time function enables GLP/GMP compliant printouts, ensuring full control and traceability.

Semi-Microbalances



Technical data	MS105	MS105DU	MS205DU	MS204
Limit values				
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)	0.04 mg	0.08 mg	0.08 mg	0.09 mg
Repeatability (at low load)	0.02 mg (20 g)	–	–	0.07 mg (20 g)
Repeatability, fine range (at nominal load)	–	0.03 mg	0.05 mg	–
Repeatability, fine range (at low load)	–	0.02 mg (20 mg)	0.02 mg (20 mg)	–
Linearity deviation	0.1 mg	0.15 mg	0.2 mg	0.2 mg
Sensitivity offset (test weight)	0.4 mg (100 g)	0.4 mg (100 g)	0.8 mg (200 g)	0.8 mg (200 g)
Typical values				
Repeatability (at nominal load)	0.03 mg	0.06 mg	0.07 mg	0.07 mg
Repeatability (at low load)	0.015 mg (20 g)	0.015 mg (20 g)	0.015 mg (20 g)	0.05 mg (20 g)
Linearity deviation (within 10 g)	0.01 mg	0.01 mg	0.01 mg	0.06 mg
USP Minimum Weight ¹⁾	30 mg	30 mg	30 mg	100 mg
Minimum sample weight (U=1 %, k=2)	3 mg	3 mg	3 mg	10 mg
Settling time	8 s	4 s	4 s	2 s
Settling time, fine range	–	8 s	8 s	–
Balance dimensions (W×D×H)	247×358×331 mm	247×358×331 mm	247×358×331 mm	247×358×331 mm
Weighing pan dimensions	∅ 80 mm	∅ 80 mm	∅ 80 mm	∅ 80 mm
Usable height of draft shield	234 mm	234 mm	234 mm	234 mm
Weight of balance	6.8 kg	6.8 kg	6.8 kg	6.8 kg

¹⁾ Typical minimum sample weight according to USP <41>; measurement at ≤5% load

Features



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 execution of balance diagnostics e.g. keypad and repeatability tests



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



SmartKeys

Programmable keys for shortcut access to preferred applications



QuickLock

Fast and convenient dismantling of the draft shield



Protection

Balance settings can be password protected



Protective cover

Encloses the entire balance housing to protect against stains and scratches



ErgoSens

For touch-free operation of the balance



Connectivity

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



Green MT

Just 1 Watt in standby, PVC and mercury free, energy efficient manufacture

Approval

Approved versions of all models available

Applications

Formulation, piece counting, percent weighing, statistics, totaling, free factor, density, pipette check, dosing, recall

Accessories



Fast, smart printers

Archive quality printouts on paper, labels and continuous labels: P-58, P-56.



Density kit

For determining the density of solids and liquids.



PipetteCheck

Balance and stand-alone pipette check-station combined, for checking pipette accuracy.

GWP®
Good Weighing Practice™
www.mt.com/GWP

METTLER TOLEDO Group

Laboratory Weighing
Local contact: www.mt.com/contacts

www.mt.com/semimicro-analytical

For more information



Subject to technical changes

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