# 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.

# **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-microbalances 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.



### 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.

METTLER

TOLEDO





# NewClassic Balances

# Semi-Microbalances

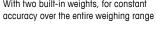


Technical data	MS105	MS105DU	MS205DU	MS204
Limit values				
Maximum capacity	120 g	120 g	220 g	220 g
Maximum capacity, fine range	-	42 g	82 g	-
Readability	0.01 mg	0.1 mg	0.1 mg	0.1 mg
Readability, fine range	-	0.01 mg	0.01 mg	-
Repeatability (at nominal load)	0.04 mg	0.08 mg	0.08 mg	0.09 mg
Repeatability (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)	0.02 mg	0.02 mg	0.02 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 (WxDxH)	247x358x331 mm	247x358x331 mm	247x358x331 mm	247x358x331 mm
Weighing pan dimensions	Ø 80 mm	Ø 80 mm	Ø <b>80</b> mm	Ø 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

<sup>1)</sup> Typical minimum sample weight according to USP <41>; measurement at  $\leq$  5% load

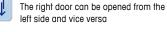
### **Features**

HRT weighing cell With two built-in weights, for constant HRT



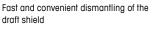


ErgoDoor



QuickLock

Quick Lock





For touch-free operation of the balance

# Approval **Applications**

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

Density kit

liquids.

# Accessories

**GWP**<sup>®</sup>

Good Weighing Practice™

CE

www.mt.com/GWP



Approved versions of all models available

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

# Mettler-Toledo AG

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### FACT

FACT

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USB

RS232

Fully automatic time- and temperaturecontrolled internal adjustment

### SmartTrac

Shows how much of the entire weigh-

# ing range has been used

Protection Balance settings can be password protected

### Connectivity

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

For determining the density of solids and

# protect against stains and scratches



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

Programmable keys for shortcut access

Encloses the entire balance housing to

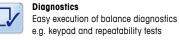


**PipetteCheck** Balance and stand-alone pipette checkstation combined, for checking pipette accuracy.

# www.mt.com/ms-analytical

For more information





**F1** 

SmartKeys

to preferred applications

Protective cover