

MS Precision Balances

0.01 g



Robust Aluminium Housing

The robust housing is made from high-quality aluminum and protects the weighing sensor from environmental influences and impacts. It is also resistant to chemicals. Consistent performance is guaranteed year after year – even with intensive use.



MonoBloc Inside

MonoBloc, the proven high-performance weighing cell developed by world leader in weighing technologies, METTLER TOLEDO, guarantees a long service life and extreme ruggedness.



User-friendly Operation

The High Contrast Display (HCD) with big numbers, clear symbols and an intuitive menu enables users to operate the balance quickly and easily. And with three freely programmable **SmartKeys**, routine tasks can be started at the touch of a button.



Once Level, Always Level

In addition to the adjustable feet at the front, the balance is equipped with **LevelLock** feet at the back, providing increased safety and anti-tilt capabilities.



Strong Performers for Robust Reliability

Whether you are carrying out a simple routine task or a complicated weighing procedure, NewClassic precision balances offer a winning combination of strong performance and increased productivity thanks to the fast settling time and consistently reliable results.

With the proven MonoBloc weighing technology as well as fully automatic time- and temperature-controlled internal adjustment (FACT), MS analytical balances support your everyday weighing tasks.

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Technical data	MS1602S	MS1602SE*	MS3002S	MS3002SE*	MS4002S	MS6002S	MS10002S
Limit values							
Maximum capacity	1620 g	1620 g	3200 g	3200 g	4200 g	6200 g	10200 g
Readability	0.01 g	0.01 g	0.01 g	0.01 g	0.01 g	0.01 g	0.01 g
Repeatability (at nominal load)	0.01 g	0.01 g	0.01 g	0.01 g	0.01 g	0.01 g	0.01 g
Linearity deviation	0.02 g	0.02 g	0.02 g	0.02 g	0.02 g	0.02 g	0.02 g
Sensitivity temperature drift	3 ppm/°C	3 ppm/°C	3 ppm/°C	3 ppm/°C	3 ppm/°C	3 ppm/°C	3 ppm/°C
Typical values							
Repeatability (at nominal load)	0.007 g	0.007 g	0.007 g	0.007 g	0.007 g	0.007 g	0.007 g
Linearity deviation	0.006 g	0.006 g	0.006 g	0.006 g	0.006 g	0.006 g	0.006 g
USP Minimum Weight ¹⁾	14 g	14 g	14 g	14 g	14 g	14 g	14 g
Minimum weight (acc. to 1%, k=2, typ.)	1.4 g	1.4 g	1.4 g	1.4 g	1.4 g	1.4 g	1.4 g
Settling time	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s
Balance dimensions (WxDxH in mm)	194x347x99	194x347x99	194x347x99	194x347x99	194x347x99	194x347x99	194x346x99
Weighing pan dimensions (mm)	170x200	170x200	170x200	170x200	170x200	170x200	170x200
Weight of balance	4.8 kg	4.7 kg	4.8 kg	4.7 kg	4.8 kg	4.8 kg	4.8 kg

* Adjustment with an external weight (without FACT); ¹⁾ Typical minimum sample weight according to USP <41>; measurement at ≤ 5% load

Features

<p>Metal Metal housing High-grade chemical-resistant die-cast aluminum housing</p> <p>Mono Bloc MonoBloc Proven weighing technology for fast and accurate results</p> <p>Level Lock LevelLock Fixable rear support feet for additional safety</p> <p>Overload protection Protects the weighing cell against excess weight overload</p>	<p>FACT FACT Fully automatic time- and temperature-controlled internal adjustment</p> <p>SmartTrac SmartTrac Shows how much of the entire weighing range has been used</p> <p>Protection Protection Balance settings can be password protected</p> <p>USB RS232 Connectivity RS232 to connect to PC, printer or bar code reader; USB to connect to PC</p>	<p>Diagnostics Diagnostics Easy execution of balance diagnostics e.g. keypad and repeatability tests</p> <p>F1 SmartKeys Programmable keys for shortcut access to preferred applications</p> <p>Protective cover Protective cover Encloses the entire balance housing to protect against stains and scratches</p> <p>Green MT Green MT Just 1 Watt in standby, PVC and mercury free, energy efficient manufacture</p>
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Approval

Approved versions of all models available

Applications

Piece counting, percent weighing, check weighing, dynamic weighing, statistics, formulation, totaling, free factor, density, dosing, recall

Accessories



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



Pan protection
Self-adhesive sheet protects the balance pan from stains and scratches and soaks up minor spills. Simply peel off and replace as required.



Weights and CarePacs®
For routine testing and adjustment of balances, with guaranteed traceability.

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



Mettler-Toledo AG
Laboratory & Weighing Technologies
CH-8606 Greifensee, Switzerland
Tel. +41 44 944 22 11
Fax +41 44 944 30 60

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