

# High Capacity MS Precision Balances

0.1 g



### Robust Aluminum 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.



### Large Weighing Platform

The large robust weighing pan provides a stable surface for the weighing of bulky items.



### 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.



### Strong Performers for Robust Reliability

No more compromises between sample size and weighing precision. With fully automatic time- and temperature-controlled internal adjustment (FACT) and proven MonoBloc weighing technology, you can be assured of strong performance and fast settling times to help increase your productivity. The robust, chemical-resistant aluminum housing and overload protection ensure a long service life.













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Technical data	MS12001L	MS16001L	MS16001LE*	MS32001L	MS32001LE*
<b>Limit values</b>					
Maximum capacity	12,200 g	16,200 g	16,200 g	32,200 g	32,200 g
Readability	0.1 g	0.1 g	0.1 g	0.1 g	0.1 g
Repeatability (at nominal load)	0.1 g	0.1 g	0.1 g	0.1 g	0.1 g
Linearity deviation	0.2 g	0.2 g	0.2 g	0.3 g	0.3 g
Sensitivity temperature drift	5 ppm/°C	5 ppm/°C	5 ppm/°C	5 ppm/°C	5 ppm/°C
<b>Typical values</b>					
Repeatability (at nominal load)	0.07 g	0.07 g	0.07 g	0.07 g	0.07 g
Linearity deviation	0.06 g	0.06 g	0.06 g	0.06 g	0.06 g
USP Minimum Weight <sup>1)</sup>	140 g	140 g	140 g	140 g	140 g
Minimum weight (acc. to 1%, k=2, typical)	14 g	14 g	14 g	14 g	14 g
Settling time	2 s	2 s	2 s	2 s	2 s
Balance dimensions (W×D×H in mm)	363×346×118	363×346×118	363×346×118	363×346×118	363×346×118
Weighing pan dimensions (mm)	351×245	351×245	351×245	351×245	351×245
Weight of balance	10.0 kg	10.0 kg	9.7 kg	10.0 kg	9.7 kg

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

## Features

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

## 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.



**Anti-theft device**  
 Steel cord with universal lock for securing the balance.



**Certified weights**  
 Weights for customized testing and adjustments. With guaranteed traceability.