MS-TS Precision Balances, 10–100 mg

Reliable, Intuitive, Robust

Proven weighing cell delivers reliable results

Our renowned MonoBloc weighing cell with automatic internal adjustment delivers consistently reliable results. Built-in overload protection ensures a long balance lifetime.

Convenient applications to increase productivity

11 built-in applications including formulation, check-weighing and piece-counting support your weighing process and data management to increase productivity and reduce errors.

Metal housing ensures long service life

The full die-cast aluminum housing not only protects the weighing cell from environmental influences and impacts, it is also resistant to harsh chemicals, including acetone.

Get connected for easy data management

Multiple interfaces including LAN and optional WLAN enable simple data handling. Transfer data to PC, FTP server, memory stick or printer in formats including PDF reports and XML/CSV files.

MS-TS Precision Balances
Convenient Weighing

The robust construction of the MS-TS Precision Balances makes them perfect for heavier tasks in the laboratory or out on the factory floor. The unique MonoBloc weighing cell delivers the accuracy you need and is fully protected against accidental overload.

The 7 inch extra-large color capacitive touchscreen display with its intuitive user interface and 18 millimeter high digits brings comfort and convenience to daily weighing tasks.

The MS-TS Precision Balances are designed to deliver consistently reliable results. These results can be easily transferred wherever needed thanks to future-proof connectivity and data-management functionalities.

METTLER TOLEDO

MS-TS Precision Balances, 10–100 mg Readability

Technical Specifications	MS1602TS	MS3002TS	MS4002TS	MS4002TSDR	MS6002TS	MS6002TSDR	MS12002TS	MS8001TS
Limit Values								
Capacity	1,620 g	3.2 kg	4.2 kg	4.2 kg	6.2 kg	6.2 kg	12.2 kg	8.2 kg
Capacity of fine range	–	–	–	820 g	–	1,220 g	–	–
Nominal load	1,600 g	3 kg	4 kg	4 kg	6 kg	6 kg	12 kg	8 kg
Readability	10 mg	10 mg	10 mg	100 mg	10 mg	100 mg	10 mg	100 mg
Readability in fine range	–	–	–	10 mg	–	10 mg	–	–
Repeatability	10 mg	10 mg	10 mg	100 mg	10 mg	100 mg	10 mg	100 mg
Repeatability in fine range	–	–	–	10 mg	–	10 mg	–	–
Linearity deviation	20 mg	20 mg	20 mg	70 mg	20 mg	70 mg	20 mg	200 mg
Typical Value								
Repeatability	7 mg	7 mg	7 mg	50 mg	7 mg	50 mg	7 mg	70 mg
Linearity deviation	6 mg	6 mg	6 mg	20 mg	6 mg	20 mg	6 mg	60 mg
Sensitivity offset (at nominal load) [1]	50 mg	50 mg	50 mg	100 mg	50 mg	100 mg	50 mg	400 mg
Minimum weight (USP, tolerance = 0.10%) [2]	14 g	14 g	14 g	14 g	14 g	14 g	14 g	140 g
Minimum weight (tolerance = 1%) [2]	1.4 g	1.4 g	1.4 g	1.4 g	1.4 g	1.4 g	1.4 g	14 g
Settling time	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s	1 s
Dimensions								
Weighing pan dimensions (W × D)	170×200 mm	170×200 mm	170×200 mm	170×200 mm	170×200 mm	170×200 mm	170×200 mm	190×226 mm

[1] after adjustment with internal weight   [2] determined at 5% load, k = 2

Accurate Results
- Capacity from 1,620 g to 12.2 kg
- Readability from 10 to 100 mg
- Minimum sample weight from 1.4 to 14 g (tolerance = 1%)
- MonoBloc weighing cell

Efficient and Intuitive Operation
- 7" color capacitive touchscreen, glove compatible
- 18 mm high digits
- 11 different applications (weighing, counting, check weighing, dynamic weighing, percent weighing, formulation, totaling, back-weighing, differential weighing, density, factor weighing)
- Statistics option and graphical results representation
- Target and tolerance setting including weighing-in aid

Quality Assurance
- Temperature and time controlled automatic internal adjustment (FACT)
- LevelControl: Level warning with leveling guide
- Configurable sample and task IDs
- User management for up to 20 users
- ISO Log for adjustments, tests and setting changes

Easy Data Transfer
- Easy connectivity and data export: LAN, USB, RS232 and optional WLAN/Bluetooth
- Easy connection of peripheral devices: Printer, PC, USB memory stick, barcode reader and keyboard
- Advanced reporting and publishing capabilities
- Web access for remote control and second screen
- Export of measurement results to USB memory stick or FTP Server as XML, PDF, CSV or TXT file
- PC-Direct to easily transfer weight values to PC
- Comprehensive data management in connection with EasyDirect™ Balance software

Sustainable Value
- Robust and chemical-resistant full metal housing
- Overload protection
- Improved stability with LevelLock feet
- Designed for easy cleaning

Accessories
Accessories like EasyDirect™ Balance data management software, printers, calibration weights, and a wireless dongle help you enhance performance, improve ergonomics and handle your data efficiently.

▶ **www.mt.com/lab-accessories**

www.mt.com/ms-precision

For more information