Datasheet

METTLER TOLEDO

KHUSHBOO SCIENTIFIC SINCE 1984...
Authorised Distributors for India

MA Precision Balances MA503

Efficient and Simple

Simple Operation

The large, bright screen is easy to read, while on-screen instructions guide you through each weighing procedure. Calcu· lations are performed automatically and it's simple to print out results or transfer them to a storage device.

Multiple Interfaces

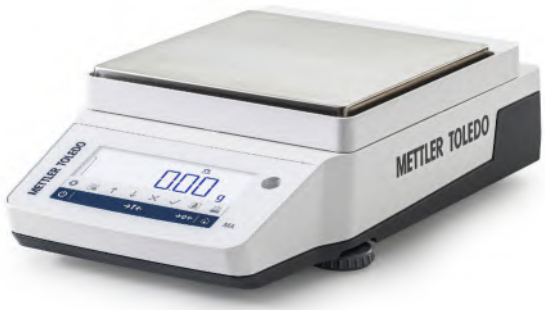
Thanks to the USB-A and RS232 interfaces, you can transfer your weighing data quickly and without error to a printer or a computer or connect to a USB storage device for simple data transfer.

Trusted Performance

With proven weighing technologies and automatic adjustment using the internal test weights, you can trust your results to be consistent and precise.

Built to Last

Thanks to high-quality materials and solid construction, these balances are highly resilient. Even with intensive use in challenging weighing environments, you can depend on many years of reliable service.



Easy Everyday Weighing For Your Routine Tasks

You can rely on accurate results with these high-quality balances that are intuitive to operate and easy to clean. Built-in applications provide simple instructions, while automatic calculations and electronic data transfer minimize errors and make documentation easy.

The bright LCD screen provides excellent readability, while the glass surface resists wear and tear and is easy to clean. The touch keys make it simple to operate the balance and navigate through the menus in the user interface.

Technical Specifications

	MA503
Limit values	
Capacity	520 g
Readability	1 mg
Repeatability (at 5% load)	1 mg
Linearity deviation	2 mg
Sensitivity offset (at nominal load) ▲	8 mg
Typical values	
Repeatability (at 5% load)	0.7 mg
Linearity deviation	0.6 mg
Sensitivity offset (at nominal load) ▲	5 mg
Minimum weight (USP, tolerance = 0.10%) ▼	1.4 g
Minimum weight (tolerance = 1%) ▼	140 mg
Settling time	1.5 s
Dimensions and other specifications	
Balance dimensions (W × D × H)	209 × 354 × 354 mm
Weighing pan dimensions (W × D)	–
Weighing pan diameter	120 mm

▲after adjustment with internal weight

▼determined at 5% load, k = 2

All models are available as approved versions. Models without internal test weights are also available (ExCal).

Features

Performance

- Electromagnetic Force Compensation (EMFC) weighing cell
- Internal adjustment

Quality Assurance

- OIML/NTEP approved
- Front level indicator
- Sample ID

Sustainable Value

- Metal base, PBT top housing
- Overload protection
- Easy-to-clean QuickLock draft shield

Efficient Operation

- LCD hybrid touchscreen
- 10 built-in applications
- Statistical data analysis
- Hook for weighing below the balance
- Plug & Play

Data Management

- 2 interfaces: USB-A, RS232
- Bluetooth option
- Transfer weight function for easy data transfer
- MT-SICS
- EasyDirect Balance software

Accessories

Enhance performance, improve ergonomics, and handle your data efficiently with our wide range of accessories, including EasyDirect Balance data management software, printers, weights, and density kit.

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Certifications
NABL (CC-4436) ISO CRISIL