



Sartorius Award Winning Genius ME Series

Fast,
Functional,
Smart



GENIUS series balances from Sartorius come in four semi-micro models and three analytical models:

Semi-micro balances (readability of 0.01 mg)

- Model ME415S
- Model ME235S
- Model ME235P
- Model ME235P-SD special pipette calibration model

Analytical range balances (readability of 0.1 mg)

- Model ME614S
- Model ME414S
- Model ME254S

Sartorius ME Series GENIUS

N.I.C.E. and F.A.S.T. with Sartorius functional design.

1 Neutralization by Ionic Charge Elimination (N.I.C.E.)



The built-in static eliminator neutralizes electrostatic charges on samples and tare containers at the touch of a key!

2 Fully Automatic by Soft Touch (F.A.S.T.)

An innovative flexible draft shield system offers fully automatic operation at the touch of either of the large side keys, designed to be depressed with the ball (edge) of your hand. Also featured: a three-part, motorized draft shield with "intelligent" self-teaching functions, for optimal adaptation to any weighing requirements.

3 User-friendly operation

GENIUS design makes even complicated laboratory weighing applications routine, due to three main factors:

- a clearly arranged keypad
- a program structure that is (intuitively) easy to learn, and
- a backlit graphic display

4 SQmin function

The new SQmin function displays the minimum sample weight allowed according to the United States Pharmacopeia (USP).

5 Show Uncertainty—Reduce Errors

The new function for dynamic display of the uncertainty of measurement and process accuracy in accordance with DKD.

6 Work area

A detachable display and control unit provides great flexibility in arranging your work area.

7 Easy to clean

All GENIUS surfaces are smooth and highly resistant to chemicals. The weighing chamber base is dirt-resistant—even fine powders do not leave residual traces. The weighing pan, shield disk and draft shield keys can be easily removed for cleaning. The keypad is hermetically sealed for protection from dust and moisture.

8 Designed for data communication



Two interface ports on the back of the GENIUS balance enable connection to a wide choice of peripheral devices, such as:

- a standard PC (using optional Software Wedge or SartoConnect software), or to operate the balance via customer-specific application programs
- external accessories such as checkweighing display, hand or foot switch, or a second remote display
- a Sartorius printer
- a bar code scanner
- options: Sartorius RS-485 communications port, PC data interface, and others

9 Application programs

GENIUS features a complete package of built-in application programs. In addition to the standard programs of

- counting
- weighing in %
- checkweighing
- animal weighing
- formulation
- totalizing

GENIUS also supports the following applications:

- density determination
- time-controlled functions
- statistical evaluation
- differential weighing/backweighing
- air buoyancy correction
- air density determination

10 Quality control management

GENIUS offers built-in isoCAL calibration and fully automatic adjustment (featuring calibration record storage and ISO/GLP compliant, user-configurable records and printouts). This makes GENIUS balances ideal for use in all major, well-known quality control systems.

Other features

Patented Sartorius monolithic weighing technology makes GENIUS extremely reliable, accurate and fast. This results in precision of the highest level throughout weighing ranges of 0.01 mg/410g to 0.1 mg/610g.



A hanger for below-balance weighing is integrated into the weighing pan; pan features an "anti-twist" design to enable balance integration into automated systems.

Specifications

Semi-Microbalances	Model ME415S	Model ME235S	Model ME235P	Model ME235P-SD (for pipette calibration)
Weighing range configuration	SuperRange	SuperRange	PolyRange	PolyRange
Weighing capacity (g)	410	230	60/110/230	60/110/230
Readability (mg)	0.01	0.01	0.01/0.02/0.05	0.01/0.02/0.05
Repeatability (≤mg)	0.015 (0–60g) 0.020 (60–230g) 0.035 (230–410g)	0.015 (0–60g) 0.025 (60–230g)	0.015 (0–60g) 0.04 (60–110g) 0.04 (110–230g)	0.015 (0–60g) 0.04 (60–110g) 0.04 (110–230g)
Maximum linearity (≤mg)	0.15	0.1	0.15	0.15
Response time (≤s)	10	8	8	8
Sensitivity drift (≤ppm/K)	1.0	1.0	1.0	1.0
Weighing pan diameter (mm/in.)	90/3.5	90/3.5	90/3.5	90/3.5
Outer dimensions (W x D x H)	mm in.	252 x 533 x 292 9.9 x 20.9 x 11.5	252 x 533 x 292 9.9 x 20.9 x 11.5	252 x 533 x 292 9.9 x 20.9 x 11.5
Clearance above weighing pan (H) (mm/in.)	253/9.9	253/9.9	253/9.9	195/7.7
Fax-On-Demand*	10823	10820	10821	10822

Analytical Balances	Model ME614S	Model ME414S	Model ME254S
Weighing range configuration	SuperRange	SuperRange	SuperRange
Weighing capacity (g)	610	410	250
Readability (mg)	0.1	0.1	0.1
Repeatability (≤mg)	0.1	0.1	0.07
Maximum linearity (≤mg)	0.4	0.3	0.15
Response time (≤s)	3	2.5	2.5
Sensitivity drift (≤ppm/K)	1.0	1.0	1.0
Weighing pan diameter (mm/in.)	90/3.5	90/3.5	90/3.5
Outer dimensions (W x D x H)	mm in.	252 x 533 x 292 9.9 x 20.9 x 11.5	252 x 533 x 292 9.9 x 20.9 x 11.5
Clearance above weighing pan (H) (mm/in.)	253/9.9	253/9.9	253/9.9
Fax-On-Demand*	10825	10816	10824

*For Fax-On-Demand, call 800-551-3774. Get the latest information on each model by using the access number listed above.

Accessories

YDP03-0CE	Data Printer, with statistics and time/date functions (included cable fits RS232)	YDK01	Density Kit (does not include software)
72US1010-3	Software Wedge, for DOS and Windows®, including 5 ft. cable (fits RS232)	YWP01ME	Anti-Static Pan, designed for filter weighing
YSC01L	SartoConnect data transfer software	YCP03-1**	Pipette Calibration Set, with software
		YCP03-2**	PICASO Pipette Calibration Software only (Windows®)

**Please specify for use with ME series balances at time of order.

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