GENIUS
Innovative in Function
and Design

GENIUS. So N.I.C.E. So F.A.S.T.

GENIUS – Its functional design sets it apart.
GENIUS offers the highest level of ergonomic operation for optimal functionality. Designed by Sartorius for the real world.

GENIUS – A new generation of high performance balances from Sartorius.
The GENIUS series boasts outstanding specifications. That means amazingly quick response times and lightning fast results. Reliable and extremely accurate – with the highest degree of precision in analytical weighing.

GENIUS – With a N.I.C.E. feature.
The built-in N.I.C.E. (Neutralization by Ionic Charge Elimination) static electricity eliminator comes standard on all GENIUS models. It easily neutralizes electrostatic charges on samples or tare containers at the touch of a key. The first standard feature that eliminates a previously unsolved problem.

GENIUS – Featuring F.A.S.T. technology.
The innovative, flexible F.A.S.T. (Fully Automatic by Soft Touch) draft shield system offers fully automatic operation at the touch of a key. It's a three-part, motorized draft shield with intelligent "self-teaching" functions – for optimal adaptation to every weighing situation.

Max   410 g
0%|·····'·····'·····'·····'·····'·····'·····'····
370.000
Cal

LT

TARE

ABC   I/⏻   SETUP   ⏏

1   2   3   4   5

GENIUS. Precision with the highest credentials.

GENIUS – Top performance for analytical weighing.
Two new models with substantially extended weighing ranges achieve record highs in the weighing capacity of semi-micro- and analytical balances.

Once again, GENIUS proves that 21st century monolithic weighing technology is "the weigh of the future" – delivering lightning-fast response times and extremely accurate results. No longer will heavyweight containers or samples weigh down performance.

d= 0.01 mg
100%

000 g

CF   ION   ⊚   ·

6   7   8   9   0

TARE

The GENIUS range of models. The right balance for any analytical weighing application.

GENIUS ME415S
The new SuperRange semi-micro-balance with the highest credentials pushes back all limits. Unrestricted, high-resolution weighing from 0.01 mg to 410 g for the highest demands. Unequalled accuracy – even with large tare containers or sample quantities. A "heavy-weight" benefit.

GENIUS ME235S
The SuperRange semi-micro-balance that meets the highest demands for flexibility. It features a weighing range of 0.01 mg to 230 g and full resolution for every sample weighed.

GENIUS ME235P
The PolyRange semi-microbalance featuring the classic weighing range structure of 60│110│230 g and readabilities of 0.01│0.02│0.05 mg. Complete resolution for every tare preload up to 60 g.

GENIUS ME614S
The SuperRange analytical balance with the incomparably wide weighing range of 0.1 mg to 610 g always offers sufficient reserves. A new benchmark in the world of analytical balances.

GENIUS ME414S
The SuperRange analytical
balance with the exceptionally
wide weighing range of 0.1 mg
to 410 g.

GENIUS ME254S
The SuperRange analytical
balance for all basic weighing
applications. It features a
weighing range of 0.1 mg to
250 g.

GENIUS ME235P–SD
The PolyRange analytical balance
with the same weighing range
structure as the ME235P; with
shortdesign draft shield and
pipette opening. Specially
designed for pipette calibration
or for use in automated systems.

Extremely fast, rugged,
monolithic weigh cell

N.I.C.E. static electricity
eliminator (= ionizer)

F.A.S.T. draft shield system

Large, palm-activated keys for
operating the draft shield

Backlit, graphic display

Prompts in clear English for
operator guidance

isoCAL self-calibration and fully
automatic adjustment function
with storage of calibration and
adjustment records/printouts

SQmin function displays the
minimum allowable sample
quantity in accordance with the
United States Pharmacopeia
(can be activated by the Sartorius
Service Center)

ISO | GLP-compliant records/
printouts that can be configured
by the user

Alphanumeric input capability
for sample IDs

Highly resistant keypad overlay

Stainless steel weighing pan with
removable pan support

Highly resistant coating over the
weighing chamber base

Sartorius RS-232 communica-
tions port

Sartorius printer port

13 built-in application programs

Remote-capable display and
control unit

Integrated hanger for below-
balance weighing

Anti-twist weighing pan for
integration of the balance into
automated systems

GENIUS. The applications are built in.

GENIUS "surpasses" the ultimate in weighing technology. The GENIUS series features a complete package of built-in application programs that go above and beyond the standard application programs used in the analytical laboratory. User-friendly GENIUS enables you to easily take control of even the most sophisticated and complex tasks.

In addition to the "standard" programs, such as counting, weighing in percent, checkweighing, animal weighing, formulation and totalizing, GENIUS supports the following applications:

Density determination

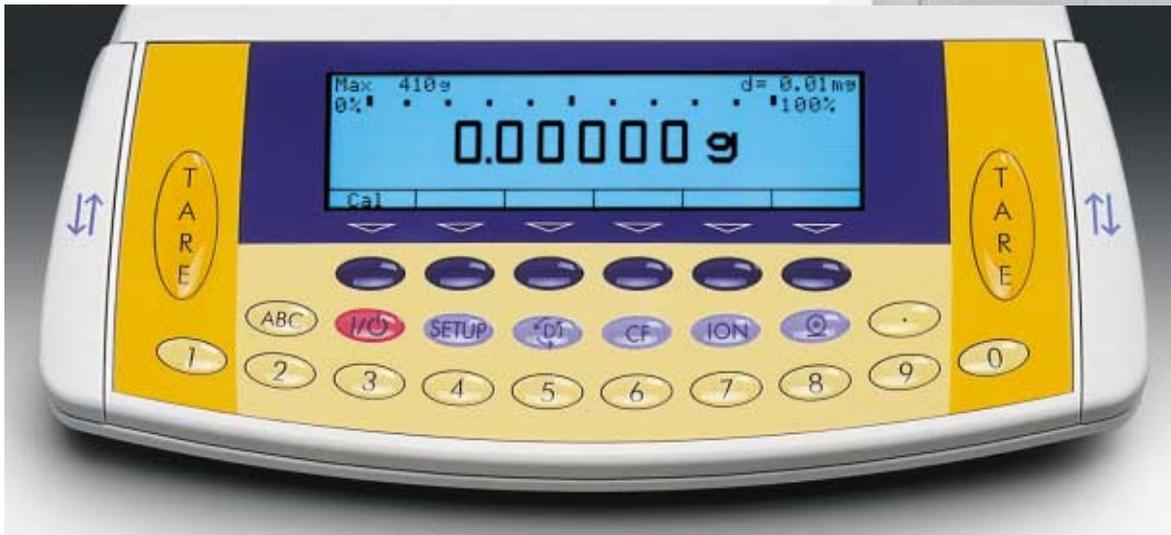Calculation of weights using a definable factor or equation

Time-controlled functions

Statistical evaluations

Differential weighing

Air buoyancy correction for high precision, absolute weighing operations

Air density determination

GENIUS. Specifications for semi-microbalances.

Model	ME415S	ME235S	ME235P
Weighing range structure	SuperRange	SuperRange	PolyRange
Weighing capacity (g)	410	230	60|110|230
Readability (mg)	0.01	0.01	0.01|0.02|0.05
Repeatability (≤mg)	0.015 (0–60 g) 0.020 (60–230 g) 0.035 (230–410 g)	0.015 (0–60 g) 0.025 (60–230 g)	0.015 (0–60 g) 0.040 (60–110 g) 0.040 (110–230 g)
Max. linearity (≤mg)	0.15	0.1	0.15
Response time (≤s)	10	8	8
Sensitivity drift (≤ppm/K)	1.0	1.0	1.0
Weighing pan diameter (mm)	90	90	90
External dimensions, W × D × H (mm)	252 × 533 × 292	252 × 533 × 292	252 × 533 × 292
Weighing chamber dimensions, W × D × H (mm)	194 × 184 × 292	194 × 184 × 292	194 × 184 × 292
Clearance above weighing pan, W × D × H (mm)	253	253	253

GENIUS. Specifications for analytical balances.

Model	ME614S	ME414S	ME254S	ME235P–SD*
Weighing range structure	SuperRange	SuperRange	SuperRange	PolyRange
Weighing capacity (g)	610	410	250	60|110|230
Readability (mg)	0.1	0.1	0.1	0.01|0.02|0.05
Repeatability (≤mg)	0.1	0.1	0.07	0.015 (0–60 g) 0.040 (60–110 g) 0.040 (110–230 g)
Max. linearity (≤mg)	0.4	0.3	0.15	0.15
Response time (≤s)	3	2.5	2.5	8
Sensitivity drift (≤ppm/K)	1.0	1.0	1.0	1.0
Weighing pan diameter (mm)	90	90	90	90
External dimensions, W × D × H (mm)	252 × 533 × 292	252 × 533 × 292	252 × 533 × 292	252 × 533 × 234
Weighing chamber dimensions, W × D × H (mm)	194 × 184 × 292	194 × 184 × 292	194 × 184 × 292	194 × 184 × 234
Clearance above weighing pan, W × D × H (mm)	253	253	253	195

* with short-design draft shield and pipette opening, 60 mm ∅, with cover

Accessories	Order No.
Data printer	YDP03-0CE
Remote display, LCD, height of digits:13 mm; reflective	YRD02Z
Remote display, LCD, height of digits:13 mm; transmissive (for overhead projectors)	YRD13Z
Carrying case	YDB01ME
Antivibration balance table (wood frame with cast stone slab inset)	YWT01
Antivibration balance table (completely made of cast stone with vibration dampeners)	YWT03
Wall console	YWT04
Rechargeable battery pack, external with battery level indicator	YRB05Z
SartoConnect, set of programs for transferring measured values to a PC, with RS-232C interface cable, length: 1 m	YSC01L
Weight set for air density determination	YSS45-00
Density determination kit	YDK01
Density determination kit, verified for legal metrology (for liquid substances)	YDK01-0D
Antistatic pan, specially designed for filter weighing	YWP01ME
Foot switch for opening/closing the draft shield and activating tare and print functions	YPE01RC
PC-compatible data interface (9-contact) incl. 5-contact DIN connector for bar code scanner or PC keyboard	YDO01ME
RS-485 data interface (12-contact, round) incl. 5-contact DIN connector for bar code scanner or PC keyboard	YDO02ME
Pipette calibration set with software	YCP03-1
Software for pipette calibration	YCP03-2
Glass plate support, holds samples to condition them to temperature inside the weighing chamber	YGS01ME
Extension cord for connecting a weighing platform to a separate display & control unit; length: 2.70 m	YCC01-MED27
RS-232C interface cable for connecting the balance to a PC with a 25-contact COM port; length: approx. 1.5 m	7357312
RS-232C interface cable for connecting the balance to a PC with a 9-contact COM port; length: approx. 1.5 m	7357314
Bar code scanner	YDR02FC