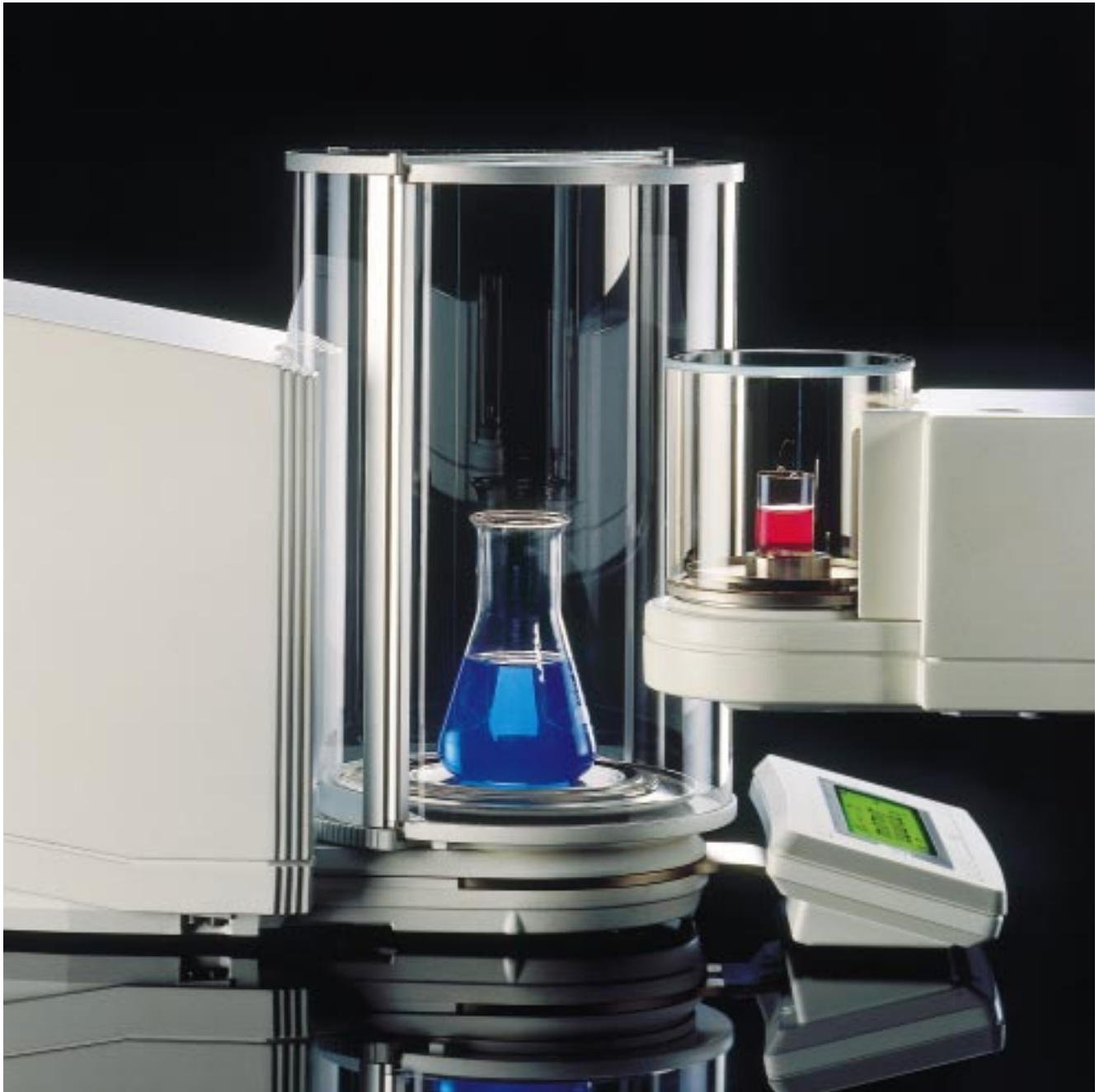


Experience the power of maximum resolution and perfect features.



Sartorius AG, Weighing Technology

sartorius

Ultra-micro- and microbalances. Maximum weighing precision for minimum sample quantities.

There are three things that determine the success of working with micro- and semi-microquantities:

- Weighing results of the highest accuracy
- Weighing results which meet the most stringent requirements of quality assurance and government legislation
- Weighing results which are generated with uncompromising speed and ease

Sartorius microbalances fulfill these prerequisites and comply with the highest demands. With an incredible full resolution of 21 million digits up to a capacity of 2.1 g, the new SC2 ultra-microbalance is a shining example of the ultimate that can be achieved in weighing technology.

With the SC2, Sartorius has gone a step further by implementing the successful design of its MC5 microbalance in the ultra-micro range – without limiting any features or reducing ease of operation. The SC2 perfectly rounds off Sartorius' family of ultra-micro- and microbalances.

Fully automatic calibration with isoCAL.

Both the SC2 and MC5 balances come standard with isoCAL, which enables them to self-calibrate and perform automatic adjustment at regular intervals as required by ISO and GLP standards.

Activated by fluctuations in ambient temperature, isoCAL fully automatically controls internal calibration and adjustment.

This means that you will never have to worry again about forgetting to perform calibration and adjustment at regular intervals, which is a requirement when you use your balance in a quality management system. Moreover, isoCAL reliably eliminates the interfering effects resulting from fluctuations in ambient conditions, such as those in barometric pressure and humidity.



Sartorius SC2 ultra-microbalance
Readability: 0.1 µg
Weighing capacity: 2.1 g
New: 21,000,000 times 0.1 mg!

The SC2 and MC5 open up completely new dimensions in professional microweighing.

Two top-performing models.

The SC2 provides a readability of 0.1 µg and a weighing capacity of 2.1 g; the MC5, a readability of 1 µg and a weighing capacity of 5.1 g.

Ultrafast results.

With stabilization times of only 10 seconds, you save valuable time during each weighing operation. Moreover, full resolution throughout the entire weighing range dramatically simplifies your weighing procedures.

Air buoyancy correction.

Our balances feature unique air buoyancy correction software, called EUREKA. It enables you to measure the true mass, allowing for air density.

Beyond this, EUREKA also determines and calculates fluctuations in air density.

All-glass draft shield.

The motorized draft shield is made entirely of glass. There are no parts or frame components to block your view.

Inside, the special antistatic coating on the glass eliminates interfering factors caused by static electricity.

Easy cleaning.

The Sartorius design puts an end to incomplete and laborious cleaning. Simply lift off the draft shield to gain complete access to the weighing chamber base. All surfaces of the chamber base are smooth and easy to clean. There are no inaccessible corners or interfering edges. These features pay off even more when

absolute cleanliness is required, as in medical and isotope laboratories.

Convenient operation.

The generously sized opening of the motorized draft shield moves to any position you desire. You can control the draft shield movement at the press of a key or a foot switch, or by an on-line computer. Plus, you can adjust the aperture angle manually or by entering and storing it using the numeric keys.

Both the weighing pan and the entire weighing chamber are sized so that you do not have to be a contortionist to load a sample. For filling from the top, the draft shield is optionally available with a detachable cover.

Optimal display.

The high-contrast, backlit display shows you the weighing result without any glare, even under the poorest lighting conditions. The display and control unit is optimally protected by a sealed overlay from dust and moisture.

Intelligent flexibility.

The built-in software enables you to perform backweighing with exceptional ease. It takes care of fast and error-free calculation of tare weights, initial sample weights, and the amounts backweighed in the order you choose, for up to 50 samples.

ISO & GLP printouts.

The calibration data, including the balance-generated values and raw data, are automatically recorded and output via the balance's RS-232 port to an optional printer. The printout shows all identifying data, such as the date, time, model, serial number and balance ID. Variable data are simply entered using the balance's numeric keys.



Complete view of the sample



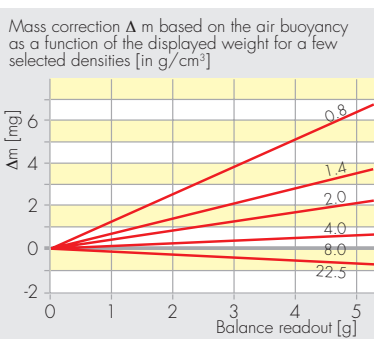
Straightforward keypad; high-contrast display



After removing the draft shield...



...you can easily clean all parts.



MC semi-microbalances provide the perfect solutions to all weighing tasks.



You can position the draft shield opening and the display unit where they are most convenient for you.

The top-of-the-line weighing technology featured in the MC210S and MC210P semi-microbalances guarantees results of the highest accuracy in all weighing applications.

However, the performance of a laboratory balance is increasingly measured not only by what it can do, but by how it does it.

That is why the adaptable draft shield and the overall ergonomic design of these balances ensure that all weighing applications can be carried out with the same maximum degree of user convenience.

A master of accommodation.

From left or right, from the front or from above – the draft shield on the MC semi-microbalances always opens according to the needs of the task at hand.

Both the position as well as the angle (up to 170°) of the draft shield opening can be freely and infinitely selected for convenient loading, depending on your requirements. The motorized draft shield opens at the touch of a key or a foot switch, or using the keyboard of an on-line computer.

And what if you want to approach “the subject” from above – to fill tall vessels? No problem: a special draft shield cover with a sliding door is optionally available for convenient filling.

Everything your heart desires.

The large, high-contrast, backlit display is a perfect example of clear, ergonomic design, and is easy to read under any lighting conditions.

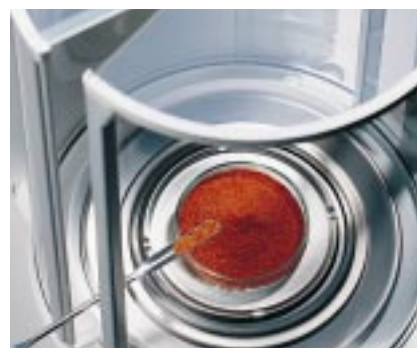
Because the display and control unit can be swiveled 85 degrees to the left or right, the balance can be individually adapted to narrow spaces.

Further examples are the built-in self-calibrating and adjustment function, isoCAL, and the ISO/GLP-compliant recording capability for generating records of all calibration data, balance-generated values and raw data, including the date, time, balance model, serial and ID numbers.

Now when it comes to quality assurance, you will always have peace of mind.



Ideal for pipette calibration



Convenient filling from any position

Perfect, not only for pipette calibration.

If pipettes play an important role in your laboratory, then they will play this role extremely well with an MC.

The reason: an MC balance, our pipette calibration set, YCP01, and an on-line computer enable you to calibrate pipettes yourself in compliance with ISO/GLP.

If your applications involve density determination, you can choose to work according to the buoyancy or the specific gravity bottle method. Whichever method you decide on, the MC's built-in application programs ensure fast, easy and reliable determination of the density.

If you are looking for a 0.1-mg balance that offers all we have described above plus a weighing capacity of 410 g, then the MC410S will give you exactly what you want.



Product line-up.



Model		SC2	MC5	MC21S
		The ultra-microbalance ranks at the top of the line, with full, 0.1- μ g resolution throughout the entire weighing range up to a 2.1-g capacity; it has all the excellent features of the proven MC5 microbalance	The microbalance with the convenient all-glass draft shield and full, 1- μ g resolution throughout the entire weighing range up to a 5.1-g capacity.	The balance featuring an amazing, 21-g weighing capacity with full, 1- μ g resolution throughout the entire weighing range; with a manually-adjustable draft shield
Weighing range structure		SuperRange	SuperRange	SuperRange
Maximum weighing capacity	g	2.1	5.1	21
Electronic weighing range	g	2.1	5.1	21
Readability	μ g	0.1	1	1
Tare range (subtractive)	g	2.1	5.1	21
Reproducibility	μ g	0.25	1	2
Weighing ranges	g			
Max. linearity	μ g	± 0.9	± 4	± 15
Stabilization time (avg.)	s	10	10	10
Adaptation to ambient conditions		by selection of 1 of 4 optimized filter levels (available on all models)		
Calibration weight		Built-in	Built-in	Built-in
Allowable ambient operating temperature	$^{\circ}$ C	+5...40	+5...40	+5...40
Pan size (dia. = \varnothing)	mm	20	30	30
Dimensions				
Weighing cell (WxDxH)	mm	122x315.5x121.5	122x315.5x121.5	219x408x318
Electronic unit (WxDxH)	mm	213x306x106.5	213x306x106.5	213x306x106.5
Weighing chamber (Dia./WxDxH)	mm	$\varnothing 80 \times 77$	$\varnothing 80 \times 77$	195x155x260
Net weight, approx.				
Weighing cell	kg	3.3	3.3	11.1
Electronic unit	kg	3.1	3.1	3.1
Data interface port		RS-232 (on all models)		

Models verifiable for use in legal metrology in the EU and the European Economic Area are available on request



MC210S

The semi-microbalance with full resolution up to 210 g and a range of versatile applications, such as air buoyancy correction.

MC210P

The counterpart of the MC210S; with the practical weighing range structure.

MC410S

The accuracy of an analytical balance up to an entire 410 g.

M2P

The economical microbalance featuring a resolution of 1 µg and an electronic weighing range up to 2 g

M5P-000V001

The filter weighing balance for convenient and high-precision measurement of residual quantities; for filters of up to 120 mm Ø

SuperRange	PolyRange	SuperRange	PolyRange	PolyRange
210	210	410	2	5
210	60/110/210	410	0.5/1/2	0.5/1/2
10	10/20/50	100	1/2/5	1/2/5
210	210	410	2	2
15/20/30 60/110/210	20/40/50 60/110/210	150	1/2/3 0.5/1/2	2/3/4 0.5/1/2
±120 (20 within 5 g)	±150 (20 within 5 g)	±500	±5	±5
10	10	2.5	15/12/10	15
Built-in	Built-in	Built-in	External	Built-in
+10...30	+10...30	+10...30	+15...30	+15...30
90	90	90	22	Standard: 22; filter: 125
211x498x306.5	211x498x306.5	211x498x306.5	219x291x137.5	219x291x98
-	-	-	-	-
Ø166x248	Ø166x248	Ø166x248	54x49.5x53.5	Ø131x41
12	12	12	5.1	5.3
-	-	-	-	-



Data printer



Balance table



Density determination kit

Model	SC2	MC5	MC21S	MC210S/P MC410S	M2P	M5P- 000V001
Data printer	←			YDP03-OCE		→
Remote display	←			YRD12Z		→
Carrying case				YDB01RC	YDB01M	YDB01M
Balance table (wooden frame with cast stone slab inset)	←			YWT01		→
Balance table, completely made of cast stone	←			YWT03		→
Rechargeable battery pack	←	YRB05Z				→
SartoWedge program software for direct data transfer to a PC	←			YSW01		→
Weight set for determination of the air density	*	YSS35	*	YSS45		
Pipette calibration set including software	*	*	*	YCP02-1		
Pipette calibration software	*	*	*	YCP02-2		
Density determination kit (calibrated version)				YDK01 (YDK01-OD)		
Antistatic weighing pan for electrostatically charged samples				YVP01		
Foot switch for opening/ closing the draft shield, taring and printing	YPE01RC	YPE01RC		YPE01RC		
Foot switch for taring			YFS01		YFS01	YFS01
Ionizing blower for eliminating static electricity	←			YIB01-ODR		→

* available on request