

The New Sartorius CP-Series

Semimicro, Analytical and Precision Balances
From 0.01mg to 34000g.



Setting new standards for design and performance.

The New Sartorius CP-Series

Product Positioning

- ▲ The Sartorius CP-Series is the successor for the BP series = products of the Sartorius Silver Level
- ▲ Price positioning: comparable to the BP level
- ▲ Main distribution channel: dealers

Goals

- ▲ Strengthen and extend our position in the Silver Level with a product that offers an excellent range of performance features, high quality, and an outstanding housing design.

The Bold New Housing Design. Amazing and Ergonomic.

- ▲ Design is one key factor of success. For the first time, the geometric shape of a triangle is used for the housing and the weighing pan.
- ▲ Triangular pan size shape, on all models with 0.01mg/0.1mg/1mg readability and the CP622 (increased pan size area in comparison to BP: 0.01/0.1 mg : +27%; 1mg : + 16%)
- ▲ Blue backlit display and a new color design for the keypad area.



The Product Range - Unique at this Level.



Model	Readability (mg)	Capacity (g)	Predecessor
CP225D	0.01/0.1	80/220	BP211D
CP324S	0.1	320	BP301S
CP224S	0.1	220	BP221S
CP124S	0.1	120	BP121S
CP64	0.1	62	BP61S



CP423S	1	420	BP410S
CP323S	1	320	BP310S
CP153	1	150	BP150
CP323P	1 / 2 / 5	80/160/320	BP310P



CP622	10	620	BP610
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The Product Range - Unique at this Level.



Model	Readability (g)	Capacity (g)	Predecessor
CP4202S	0.01	4200	BP4100S
CP3202S	0.01	3200	BP3100S
CP2202S	0.01	2200	BP2100S
CP3202P	0.01/0.02/0.05	800/1600/3200	BP3100P
CP8201	0.1	8200	BP8100
CP6201	0.1	6200	BP6100
CP4201	0.1	4200	BP4100
CP2201	0.1	2200	BP2100



CP34001S	0.1	34000	-----
CP16001S	0.1	16000	BP16000S
CP12001S	0.1	12000	BP12000S
CP34001P	0.1/0.2/0.5	8000/16000/34000	BP34000P
CP34000	1	34000	BP34

The New Analytical Draft Shield. Ergonomic and Practical.

- ▲ Large weighing chamber with optimal access:
 - the doors open wide (5.12 in.); smooth action
 - 9.13 in. clearance above the weighing pan
 - space around the pan for conditioning samples



- ▲ Easy cleaning of the weighing chamber base
- ▲ Excellent protection against air currents
- ▲ Easy fastening and removal of the draft shield



The New Backlit Display. Weight Readouts in the "Best Light".

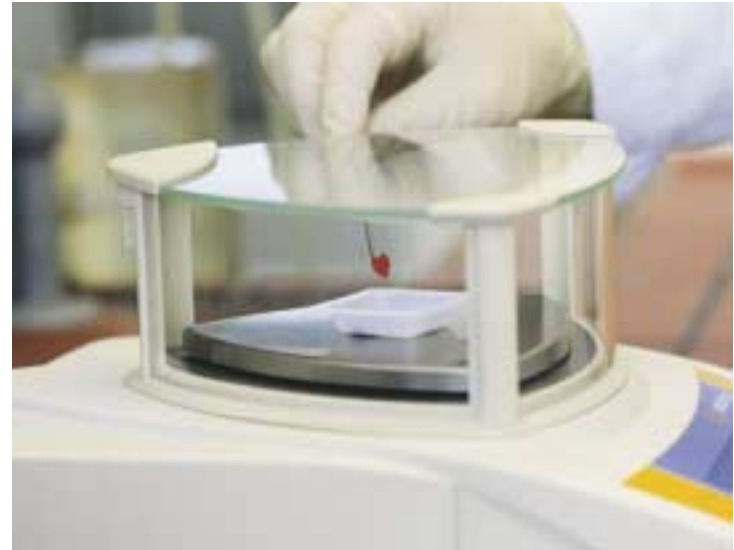
- ▲ Flexible, backlit, high-contrast display, for excellent readability under any lighting conditions (CP225D without backlight)



- ▲ Large digits – 0.65 in. (BP: 0.51 in.) for convenient and error-free reading
- ▲ The level of backlighting can be adapted to the individual requirements

The New 1mg Draft Shield. User-Friendly.

- ▲ 3 removable draft shield panels; for optimal access from any side (left, right or front)
- ▲ New attached, hinged cover, for easy sample loading from the top
- ▲ Easy to clean; spillage can be easily wiped up



The New Weighing Technology. Innovation Times Three.

▲ Monolithic weighing technology...

... in the semi-micro
and analytical balances



... in the precision balances
(CP423S, CP323S, CP153,
CP4202S, CP3202S, CP2202S,
CP3202P)



... in the high-capacity models
(CP12001S, CP16001S,
CP34001S, CP34000P, CP34)



...Guarantees:

- ▲ Amazingly fast response times
- ▲ Excellent repeatability
- ▲ High mechanical stability;
rugged for daily use
- ▲ High degree of integration
⇒ less probability of failure

Total Ease of Operation.

- ▲ Two large tare keys, for easy access whether you are left- or right-handed
- ▲ All function keys feature clear tactile feedback, so you are certain that a function has been activated
- ▲ Sealed keypad surface; highly resistant to chemicals and easy to clean; optimal protection from dust and moisture
- ▲ Large weighing pans, for easy sample loading
- ▲ Excellent product quality guarantees long life and less probability of failure



Flexibility beyond Standard Weighing.

- ▲ Four integrated application programs:
 - Animal weighing with manual or automatic start
 - Net-total formulation
 - Counting with automatic reference sample updating
 - Weighing in percent
- ▲ Automatic printout of a single value after stability (menu code: 6 1 6)
- ▲ RS-232 bidirectional interface
- ▲ Hook for below-balance weighing up to 8.2 kg
- ▲ Four digital vibration filter settings, to adapt the balance to ambient conditions at the place of installation



Calibration and Adjustment.

- ▲ Internal, motorized calibration weight in the semimicro and analytical balances, for maximum weighing accuracy at the press of the CAL key
- ▲ External calibration/adjustment on precision balances (g, kg, lb)
- ▲ Selectable sequence of the calibration and adjustment routine. Perfect if the balance is used in a quality system.



Sequence 1: calibration first, then automatic adjustment

Sequence 2: calibration ⇔ the result is shown on the display ⇔ CAL key for adjustment or CF for end of routine

Documentation for Use in Quality Systems.

- ▲ ISO/GLP-compliant printouts in conjunction with the YDP03-0CE printer or computer; all requested data printed

- ▲ Printout of the selected menu settings

- ▲ Integrated clock for time and date on the ISO/GLP printout

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16-Jan-2001  8:50  
SARTORIUS AG  
Mod.         CP622  
Ser. No.    12502166  
Ver. No.    00-13-42  
Id          23345678  
-----  
Cal. Ext. Test  
SET         500.00g  
Diff.       - 0.09g  
-----  
16-Jan-2001  8:51  
Name :  
-----
```

```
-----  
16-Jan-2001  7:50  
SARTORIUS AG  
Mod.         CP622  
Ser. No.    12502166  
Ver. No.    00-13-42  
Id          23345678  
-----  
L ID  
N   +   123.15g  
N   +   212.22g  
N   +    79.32g  
-----  
16-Jan-2001  7:59  
Name :  
-----
```

```
-----  
16-Jan-2001  9:50  
SARTORIUS AG  
Mod.         CP622  
Ser. No.    12502166  
Ver. No.    00-13-42  
Id          23345678  
-----  
Cal. Ext. Test  
SET         500.00g  
Diff.       - 0.09g  
Cal. Ext. Complete  
Diff.       0.00g  
-----  
16-Jan-2001  9:51  
Name :  
-----
```

Optional Accessories.

- ▲ Printer, YDP03-0CE
plain paper printer, with date and time, statistical evaluation
- ▲ Analytical draft shield chamber, YDS01CP
for all 1mg-balances
- ▲ Dust cover
for all models (note: on semi-micro, analytical balances, and high capacity models only the keypad area is covered) excellent chemical resistivity
- ▲ Draft shield cover with 1.18 in. opening
for all 1mg models
This cover is used in place of the standard cover of the draft shield
- ▲ Antistatic weighing pan, YWP01CP
for all semi-micro and analytical balances diameter: 5.12 in.

Comparison to Mettler's AB-S analytical balances

- ▲ **Backlit display on the 0.1mg models with excellent contrast and large digits – 0.65 in.**
(Mettler: normal LCD display; height of digits:0.55 in.)
- ▲ **Digital vibration filter – 4 different filter settings are possible**
(Mettler: no comparable feature)
- ▲ **Large weighing pan with 9.92 in.² pan size area** (Mettler: only 7.75 in.² pan size area)
- ▲ **Short response time, typical 2 – 3 s** (Mettler: typical 3.5 s)
- ▲ **4 integrated application programs: animal/dynamic weighing, counting, %-weighing, Net-total formulation** (Mettler: only counting)
- ▲ **All function keys with a clear tactile feedback**
(Mettler: sensor keys, no tactile feedback)
- ▲ **The CP225D, attractive pricing** (Mettler: no semimicro in the basic level, they start at the standard level with 5 decimal places)
- ▲ **All glass draft shield**

Comparison to Mettler's PB-S/SB precision balances

- ▲ **Backlit display with excellent contrast and large digits – 0.65 in.**
(Mettler: normal LCD display; height of digits: 0.55 in.)
- ▲ **Model CP423S** (Mettler only has 310g max. capacity at 1mg)
- ▲ **Model CP4202S** (Mettler only has 3100g max. capacity at 10mg)
- ▲ **Model CP34001S** (Mettler only has a delta Range Version with 34000g)
- ▲ **Large weighing pans** (Mettler has smaller pan sizes on the toploading balances)
- ▲ **4 integrated application programs: animal/dynamic weighing, counting, %-weighing, Net-total formulation** (Mettler: only counting)
- ▲ **All function keys with a clear tactile feedback**
(Mettler: sensor keys, no tactile feedback)
- ▲ **Digital vibration filter – 4 different filter settings are possible**
(Mettler: no comparable feature)
- ▲ **Single automatic printout at stability (Code:6-1-6)** (Mettler: no comparable feature)

CP-Series: Balance Menu

General Aspects

- ▲ The setting of menu codes is identical to the BP-Series
- ▲ The function of a menu code is identical in the BP and CP
- ▲ New menu items in the CP:

1-10	Calibration/adjustment sequence	1-10-1 1-10-2	Calibrate, then auto adjust in one operation Calibrate, then manual adjust
1-11	Weight unit for calibration weight	1-11-1 1-11-2 1-11-3	Grams Kilograms Pounds
4-1	Automatic reference sample updating	4-1-1 4-1-2	Off On
6-1	Manual / auto print mode	6-1-6	Automatic when load changed, (load change > 10d and stability is reached; no print out until residual difference)
8-2	Acoustic signal	8-2-1 8-2-2	On Off
8-8	Reference balance/scale (special cable required)	8-8-1 8-8-2 8-8-3 8-8-4	Off On, for QC scale On, for FB, FC, LA, LP On, for isi terminal