

# Весы премиальные CARL ROTH серии Entris II, Practum, Adventurer, ABT, Quintix, GR, Explorer, Secura

## Технические характеристики

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**Архангельск** (8182)63-90-72  
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**Уфа** (347)229-48-12  
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**Челябинск** (351)202-03-61  
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**Ярославль** (4852)69-52-93

**Россия** (495)268-04-70

**Казахстан** (772)734-952-31

**Киргизия** (996)312-96-26-47



# Balances - Premium

## Analytical and precision balances Entris® II series

Sartorius.

### Application:

- Item counter, percentage weighing, dynamic weighing (weighing animals), check weighing, components/totalling and maximum value



### Features:

- Hybrid display with combined LED and touchscreen technology
- All balances are available with external adjustment or with a fully automatic, internal temperature and time-controlled adjustment function
- Glass draft shield with three sliding doors for models with 0.0001/0.001 g readability (interior height 240 mm); (W) = incl. draft shield
- Eight different menu language options can be selected
- USB-C port with "PC direct" function which makes connecting to a PC easy, for transferring weighing data directly to tables or documents, like Microsoft® Excel or Word
- With RS-232 port
- Monolithic weighing technology**

Delivery incl. mains adapter.

### Models with external calibration, cannot be calibrated

| Type          | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility | Weighing pan (mm) | Art. No.      | Pack Qty. |  |
|---------------|--------------------|-----------------|---------------|-----------------|-------------------|---------------|-----------|--|
| BCE64-1S (W)  | 60                 | 0.0001          | 0,0002        | 0,0001          | 90                | <b>KLK2.1</b> | 1 unit(s) |  |
| BCE124-1S (W) | 120                | 0.0001          | 0,0002        | 0,0001          | 90                | <b>KLK3.1</b> | 1 unit(s) |  |
| BCE224-1S (W) | 220                | 0.0001          | 0,0002        | 0,0001          | 90                | <b>KLK4.1</b> | 1 unit(s) |  |
| BCE223-1S (W) | 220                | 0.001           | 0,002         | 0,001           | 120               | <b>KLK5.1</b> | 1 unit(s) |  |
| BCE323-1S (W) | 320                | 0.001           | 0,002         | 0,001           | 120               | <b>KLK6.1</b> | 1 unit(s) |  |
| BCE423-1S (W) | 420                | 0.001           | 0,002         | 0,001           | 120               | <b>KLK7.1</b> | 1 unit(s) |  |
| BCE623-1S (W) | 620                | 0.001           | 0,002         | 0,001           | 120               | <b>KLK8.1</b> | 1 unit(s) |  |
| BCE822-1S     | 820                | 0.01            | 0,02          | 0,01            | 182 x 182         | <b>KLK9.1</b> | 1 unit(s) |  |
| BCE1202-1S    | 1200               | 0.01            | 0,02          | 0,01            | 182 x 182         | <b>KLL0.1</b> | 1 unit(s) |  |
| BCE2202-1S    | 2200               | 0.01            | 0,02          | 0,01            | 182 x 182         | <b>KLL1.1</b> | 1 unit(s) |  |
| BCE3202-1S    | 3200               | 0.01            | 0,02          | 0,01            | 182 x 182         | <b>KLL2.1</b> | 1 unit(s) |  |
| BCE4202-1S    | 4200               | 0.01            | 0,02          | 0,01            | 182 x 182         | <b>KLL3.1</b> | 1 unit(s) |  |
| BCE6202-1S    | 6200               | 0.01            | 0,02          | 0,01            | 182 x 182         | <b>KLL4.1</b> | 1 unit(s) |  |
| BCE2201-1S    | 2200               | 0.1             | 0,1           | 0,1             | 182 x 182         | <b>KLL5.1</b> | 1 unit(s) |  |
| BCE8201-1S    | 8200               | 0.1             | 0,3           | 0,1             | 182 x 182         | <b>KLL6.1</b> | 1 unit(s) |  |

### Models with internal calibration, cannot be calibrated

| Type           | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility | Weighing pan (mm) | Art. No.      | Pack Qty. |  |
|----------------|--------------------|-----------------|---------------|-----------------|-------------------|---------------|-----------|--|
| BCE64i-1S (W)  | 60                 | 0.0001          | 0,0002        | 0,0001          | 90                | <b>KLL7.1</b> | 1 unit(s) |  |
| BCE124i-1S (W) | 120                | 0.0001          | 0,0002        | 0,0001          | 90                | <b>KLL8.1</b> | 1 unit(s) |  |
| BCE224i-1S (W) | 220                | 0.0001          | 0,0002        | 0,0001          | 90                | <b>KLL9.1</b> | 1 unit(s) |  |
| BCE223i-1S (W) | 220                | 0.001           | 0,002         | 0,001           | 120               | <b>KLN0.1</b> | 1 unit(s) |  |
| BCE323i-1S (W) | 320                | 0.001           | 0,002         | 0,001           | 120               | <b>KLN1.1</b> | 1 unit(s) |  |
| BCE423i-1S (W) | 420                | 0.001           | 0,002         | 0,001           | 120               | <b>KLN2.1</b> | 1 unit(s) |  |
| BCE623i-1S (W) | 620                | 0.001           | 0,002         | 0,001           | 120               | <b>KLN3.1</b> | 1 unit(s) |  |
| BCE822i-1S     | 820                | 0.01            | 0,02          | 0,01            | 182 x 182         | <b>KLN4.1</b> | 1 unit(s) |  |
| BCE1202i-1S    | 1200               | 0.01            | 0,02          | 0,01            | 182 x 182         | <b>KLN5.1</b> | 1 unit(s) |  |
| BCE2202i-1S    | 2200               | 0.01            | 0,02          | 0,01            | 182 x 182         | <b>KLN6.1</b> | 1 unit(s) |  |
| BCE3202i-1S    | 3200               | 0.01            | 0,02          | 0,01            | 182 x 182         | <b>KLN7.1</b> | 1 unit(s) |  |
| BCE4202i-1S    | 4200               | 0.01            | 0,02          | 0,01            | 182 x 182         | <b>KLN8.1</b> | 1 unit(s) |  |
| BCE6202i-1S    | 6200               | 0.01            | 0,02          | 0,01            | 182 x 182         | <b>KLN9.1</b> | 1 unit(s) |  |
| BCE2201i-1S    | 2200               | 0.1             | 0,1           | 0,1             | 182 x 182         | <b>KLP0.1</b> | 1 unit(s) |  |
| BCE8201i-1S    | 8200               | 0.1             | 0,3           | 0,1             | 182 x 182         | <b>KLP1.1</b> | 1 unit(s) |  |

# Balances - Premium

## Models with internal calibration, calibrated ex works

| Type             | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility | Weighing pan (mm) | Art. No. | Pack Qty. |  |
|------------------|--------------------|-----------------|---------------|-----------------|-------------------|----------|-----------|--|
| BCE64i-1CEU (W)  | 60                 | 0.0001          | 0,0002        | 0,0001          | 90                | KLP2.1   | 1 unit(s) |  |
| BCE124i-1CEU (W) | 120                | 0.0001          | 0,0002        | 0,0001          | 90                | KLP3.1   | 1 unit(s) |  |
| BCE224i-1CEU (W) | 220                | 0.0001          | 0,0002        | 0,0001          | 90                | KLP4.1   | 1 unit(s) |  |
| BCE223i-1CEU (W) | 220                | 0.001           | 0,002         | 0,001           | 120               | KLP5.1   | 1 unit(s) |  |
| BCE323i-1CEU (W) | 320                | 0.001           | 0,002         | 0,001           | 120               | KLP6.1   | 1 unit(s) |  |
| BCE423i-1CEU (W) | 420                | 0.001           | 0,002         | 0,001           | 120               | KLP7.1   | 1 unit(s) |  |
| BCE623i-1CEU (W) | 620                | 0.001           | 0,002         | 0,001           | 120               | KLP8.1   | 1 unit(s) |  |
| BCE822i-1CEU     | 820                | 0.01            | 0,02          | 0,01            | 182 x 182         | KLP9.1   | 1 unit(s) |  |
| BCE1202i-1CEU    | 1200               | 0.01            | 0,02          | 0,01            | 182 x 182         | KLT0.1   | 1 unit(s) |  |
| BCE2202i-1CEU    | 2200               | 0.01            | 0,02          | 0,01            | 182 x 182         | KLT1.1   | 1 unit(s) |  |
| BCE3202i-1CEU    | 3200               | 0.01            | 0,02          | 0,01            | 182 x 182         | KLT2.1   | 1 unit(s) |  |
| BCE4202i-1CEU    | 4200               | 0.01            | 0,02          | 0,01            | 182 x 182         | KLT3.1   | 1 unit(s) |  |
| BCE6202i-1CEU    | 6200               | 0.01            | 0,02          | 0,01            | 182 x 182         | KLT4.1   | 1 unit(s) |  |
| BCE2201i-1CEU    | 2200               | 0.1             | 0,1           | 0,1             | 182 x 182         | KLT5.1   | 1 unit(s) |  |
| BCE8201i-1CEU    | 8200               | 0.1             | 0,3           | 0,1             | 182 x 182         | KLT6.1   | 1 unit(s) |  |

## Analytical and precision balances Practum® series

Sartorius.

### Application:

- Percent, checking, maximum value, counting, animal weighing
- Selectable weight units: g, kg, mg, ct, etc.
- Made in Germany



### Features:

- With external calibration function
- Touchscreen operation
- 10 different menu language options can be selected
- Full-sized draft shield for models with 0.0001 g/0.001 g readability (internal height 209 mm); (W) = incl. draft shield
- Mini USB port for automatic detection of YDP40 Sartorius standard printer (please order separately) or direct data transfer, e.g. to Microsoft® Excel, without additional software. Programmable interval for data output.
- Menu lock for protection against accidental manipulation
- Levelling feet and glass level indicator on the front
- Anti-theft loop for chain or cable
- Models with 0.01 g, 0.1 g and 1 g readability incl. protective cover for operation

**Delivery incl.** universal mains adapter (100–240 V).

| Type       | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility (g) | Weighing pan (mm) | Art. No. | Pack Qty. |  |
|------------|--------------------|-----------------|---------------|---------------------|-------------------|----------|-----------|--|
| 64-1S (W)  | 60                 | 0.0001          | ±0,0002       | ±0,0001             | Ø 90              | AHC2.1   | 1 unit(s) |  |
| 124-1S (W) | 120                | 0.0001          | ±0,0003       | ±0,0001             | Ø 90              | NN46.1   | 1 unit(s) |  |
| 213-1S (W) | 210                | 0,001           | ±0,003        | ±0,001              | Ø 120             | NN48.1   | 1 unit(s) |  |
| 224-1S (W) | 220                | 0.0001          | ±0,0003       | ±0,0001             | Ø 90              | NN45.1   | 1 unit(s) |  |
| 313-1S (W) | 310                | 0,001           | ±0,003        | ±0,001              | Ø 120             | NN47.1   | 1 unit(s) |  |
| 412-1S     | 410                | 0,01            | ±0,03         | ±0,01               | Ø 180             | AHC4.1   | 1 unit(s) |  |
| 513-1S (W) | 510                | 0,001           | ±0,002        | ±0,001              | Ø 120             | AHC3.1   | 1 unit(s) |  |
| 612-1S     | 610                | 0,01            | ±0,03         | ±0,01               | Ø 180             | NN51.1   | 1 unit(s) |  |
| 1102-1S    | 1100               | 0,01            | ±0,03         | ±0,01               | Ø 180             | NN50.1   | 1 unit(s) |  |
| 2101-1S    | 2100               | 0,1             | ±0,3          | ±0,1                | Ø 180             | AHC6.1   | 1 unit(s) |  |
| 2102-1S    | 2100               | 0,01            | ±0,03         | ±0,01               | Ø 180             | NN49.1   | 1 unit(s) |  |
| 3102-1S    | 3100               | 0,01            | ±0,03         | ±0,01               | Ø 180             | AHC5.1   | 1 unit(s) |  |
| 5100-1S    | 5100               | 1               | ±1            | ±1                  | Ø 180             | NN53.1   | 1 unit(s) |  |
| 5101-1S    | 5100               | 0,1             | ±0,3          | ±0,1                | Ø 180             | NN52.1   | 1 unit(s) |  |
| 6100-1S    | 6100               | 1               | ±1            | ±1                  | Ø 180             | AHC8.1   | 1 unit(s) |  |
| 6101-1S    | 6100               | 0,1             | ±0,3          | ±0,1                | Ø 180             | AHC7.1   | 1 unit(s) |  |



# Balances - Premium

## Analytical and precision balances Adventurer® series

Ohaus.

### Application:

- Percent, counting, animal weighing, check weighing, density measurement, batching, display-hold function and totalling
- Selectable weight units



### Features:

- All balances are available with external calibration or with AutoCal™ – automatic time- and temperature-controlled internal calibration
- Colour touchscreen with graphical LCD display and additional mechanical buttons for tare, calibration etc.
- Removable stainless steel weighing plate
- Language selection (nine languages)
- Analytical full-sized draft shield for models with 0.0001 g/0.001 g readability (internal height 230 mm); (W) = incl. draft shield
- Minimum sample weight function – a warning is displayed if the current sample weight is below the defined minimum sample weight
- **Two USB ports – one USB host port on the front for saving weighing data directly to a USB stick (not supplied) and an additional USB port on the back for connecting to a PC**
- RS 232 port
- Integrated hook for below-balance weighing

### Models with external calibration, cannot be calibrated

| Type      | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility (g) | Weighing pan (mm) | Art. No. | Pack Qty. |  |
|-----------|--------------------|-----------------|---------------|---------------------|-------------------|----------|-----------|--|
| AX124 (W) | 120                | 0.0001          | ±0.0002       | ±0.0001             | Ø 90              | CCE5.1   | 1 unit(s) |  |
| AX223 (W) | 220                | 0.001           | ±0.002        | ±0.001              | Ø 130             | CCE7.1   | 1 unit(s) |  |
| AX224 (W) | 220                | 0.0001          | ±0.0002       | ±0.0001             | Ø 90              | CCE6.1   | 1 unit(s) |  |
| AX422     | 420                | 0.01            | ±0.02         | ±0.01               | 175 x 195         | EKH8.1   | 1 unit(s) |  |
| AX423 (W) | 420                | 0.001           | ±0.002        | ±0.001              | Ø 130             | CCE8.1   | 1 unit(s) |  |
| AX523 (W) | 520                | 0.001           | ±0.002        | ±0.001              | Ø 130             | CCE9.1   | 1 unit(s) |  |
| AX822     | 820                | 0.01            | ±0.02         | ±0.01               | 175 x 195         | EKH9.1   | 1 unit(s) |  |
| AX1502    | 1520               | 0.01            | ±0.02         | ±0.01               | 175 x 195         | CCH1.1   | 1 unit(s) |  |
| AX2201    | 2200               | 0.1             | ±0.2          | ±0.1                | 175 x 195         | EKK0.1   | 1 unit(s) |  |
| AX2202    | 2200               | 0.01            | ±0.02         | ±0.01               | 175 x 195         | CCH2.1   | 1 unit(s) |  |
| AX4201    | 4200               | 0.1             | ±0.2          | ±0.1                | 175 x 195         | EKK1.1   | 1 unit(s) |  |
| AX4202    | 4200               | 0.01            | ±0.02         | ±0.01               | 175 x 195         | CCH3.1   | 1 unit(s) |  |
| AX8201    | 8200               | 0.1             | ±0.2          | ±0.1                | 175 x 195         | EKK2.1   | 1 unit(s) |  |

### Models with internal calibration, cannot be calibrated

| Type      | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility (g) | Weighing pan (mm) | Art. No. | Pack Qty. |  |
|-----------|--------------------|-----------------|---------------|---------------------|-------------------|----------|-----------|--|
| AX422     | 420                | 0.01            | ±0.02         | ±0.01               | 175 x 195         | EKK3.1   | 1 unit(s) |  |
| AX822     | 820                | 0.01            | ±0.02         | ±0.01               | 175 x 195         | EKK4.1   | 1 unit(s) |  |
| AX1502    | 1520               | 0.01            | ±0.02         | ±0.01               | 175 x 195         | CCK1.1   | 1 unit(s) |  |
| AX2202    | 2200               | 0.01            | ±0.02         | ±0.01               | 175 x 195         | CCK2.1   | 1 unit(s) |  |
| AX4202    | 4200               | 0.01            | ±0.02         | ±0.01               | 175 x 195         | CCK3.1   | 1 unit(s) |  |
| AX5202    | 5200               | 0.01            | ±0.02         | ±0.01               | 175 x 195         | CCK4.1   | 1 unit(s) |  |
| AX124 (W) | 120                | 0.0001          | ±0.0002       | ±0.0001             | Ø 90              | CCH4.1   | 1 unit(s) |  |
| AX223 (W) | 220                | 0.001           | ±0.002        | ±0.001              | Ø 130             | CCH7.1   | 1 unit(s) |  |
| AX224 (W) | 220                | 0.0001          | ±0.0002       | ±0.0001             | Ø 90              | CCH5.1   | 1 unit(s) |  |
| AX324 (W) | 320                | 0.0001          | ±0.0002       | ±0.0001             | Ø 90              | CCH6.1   | 1 unit(s) |  |
| AX423 (W) | 420                | 0.001           | ±0.002        | ±0.001              | Ø 130             | CCH8.1   | 1 unit(s) |  |
| AX523 (W) | 520                | 0.001           | ±0.002        | ±0.001              | Ø 130             | CCH9.1   | 1 unit(s) |  |
| AX2201    | 2200               | 0.1             | ±0.2          | ±0.1                | 175 x 195         | EKK5.1   | 1 unit(s) |  |
| AX4201    | 4200               | 0.1             | ±0.2          | ±0.1                | 175 x 195         | EKK6.1   | 1 unit(s) |  |
| AX8201    | 8200               | 0.1             | ±0.2          | ±0.1                | 175 x 195         | EKK7.1   | 1 unit(s) |  |

# Balances - Premium

## Models with internal calibration, calibrated ex works

| Type      | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility (g) | Weighing pan (mm) | Art. No. | Pack Qty. |  |
|-----------|--------------------|-----------------|---------------|---------------------|-------------------|----------|-----------|--|
| AX124 (W) | 120                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | EKK8.1   | 1 unit(s) |  |
| AX223 (W) | 220                | 0,001           | ±0,002        | ±0,001              | Ø 130             | EKL1.1   | 1 unit(s) |  |
| AX224 (W) | 220                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | EKK9.1   | 1 unit(s) |  |
| AX324 (W) | 320                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | EKL0.1   | 1 unit(s) |  |
| AX423 (W) | 420                | 0,001           | ±0,002        | ±0,001              | Ø 130             | EKL2.1   | 1 unit(s) |  |
| AX523 (W) | 520                | 0,001           | ±0,002        | ±0,001              | Ø 130             | EKL3.1   | 1 unit(s) |  |
| AX1502    | 1520               | 0,01            | ±0,02         | ±0,01               | 175 x 195         | EKL4.1   | 1 unit(s) |  |
| AX2202    | 2200               | 0,01            | ±0,02         | ±0,01               | 175 x 195         | EKL5.1   | 1 unit(s) |  |
| AX4202    | 4200               | 0,01            | ±0,02         | ±0,01               | 175 x 195         | EKL6.1   | 1 unit(s) |  |
| AX5202    | 5200               | 0,01            | ±0,02         | ±0,01               | 175 x 195         | EKL7.1   | 1 unit(s) |  |
| AX8201    | 8200               | 0,1             | ±0,2          | ±0,1                | 175 x 195         | EKL8.1   | 1 unit(s) |  |

## Semi-micro balances ABT series

Kern.

### Application:

- Function programs: Item counting, percentage weighing and recipe
- Different selectable filter settings
- LCD display capacity indicator
- Various weighing units (e.g. mg, g, ct, etc.) can be set



### Features:

- Monolithic weighing technology
- With internal automatic calibration: Time or temperature dependant, or set individually by key stroke
- RS 232 data port
- Stainless steel weighing platform
- Dimensions of balance incl. draft shield: W 217 x D 356 x H 338 mm
- Full-sized glass draft shield (internal height 223 mm); (W) = incl. draft shield

**Delivery incl.** industrial protective cover for the display.

### Models not calibratable

| Type             | Weighing range (g) | Readability (g) | Linearity (g)     | Reproducibility (g) | Weighing pan (mm) | Art. No. | Pack Qty. |  |
|------------------|--------------------|-----------------|-------------------|---------------------|-------------------|----------|-----------|--|
| ABT 120-5DNM (W) | 42 / 120           | 0.00001/0.0001  | ±0,00003 / 0,0002 | ±0,00002 / 0,0001   | Ø 80              | HL85.1   | 1 unit(s) |  |

### Models calibrated ex works

| Type             | Weighing range (g) | Readability (g) | Linearity (g)   | Reproducibility (g) | Weighing pan (mm) | Art. No. | Pack Qty. |  |
|------------------|--------------------|-----------------|-----------------|---------------------|-------------------|----------|-----------|--|
| ABT 120-5DNM (W) | 42 / 120           | 0,00001/0,0001  | ±0,00003/0,0002 | ±0,00002/0,0001     | Ø 80              | HL86.1   | 1 unit(s) |  |



# Balances - Premium

## Semi-micro, analytical and precision balances Quintix® series

Sartorius.

### Application:

- Mixing, components, statistics, conversion, percentage weighing, checking, maximum value, counting, animal weighing
- Made in Germany



### Features:

- With isoCAL – fully automatic, temperature- and time-controlled internal calibration
- Touchscreen with easy menu navigation
- 10 different menu language options can be selected
- Full-sized draft shield for models with 0.0001 g/0.001 g readability (internal height 209 mm); (W) = incl. draft shield
- Mini USB port for automatic detection of YDP40 Sartorius standard printer (please order separately) or direct data transfer, e.g. to Microsoft® Excel, without additional software. Programmable data output interval
- Password protection – menu lock for protection against accidental manipulation
- Levelling feet and glass level indicator on the front
- Anti-theft loop for chain or cable
- Models with 0.01 g, 0.1 g and 1 g readability incl. protective cover for operation

**Delivery incl.** universal mains adapter (100–240 V).

### Semi-micro balances, models cannot be calibrated

| Type        | Weighing range (g) | Readability (g)            | Linearity (g)             | Reproducibility (g)        | Weighing pan (mm) | Art. No.      | Pack Qty. |  |
|-------------|--------------------|----------------------------|---------------------------|----------------------------|-------------------|---------------|-----------|--|
| 35-1S (W)   | 30                 | 0,00001                    | ±0,0001                   | ±0,00003                   | Ø 80              | <b>CNH8.1</b> | 1 unit(s) |  |
| 65-1S (W)   | 40 / 60            | 0,00001/0,00001            | ±0,0001/0,0001            | ±0,0002/0,00004            | Ø 90              | <b>CNK0.1</b> | 1 unit(s) |  |
| 125D-1S (W) | 40 / 60 / 120      | 0,00001/0,00001/<br>0,0001 | ±0,0001/0,0001/<br>0,0002 | ±0,0002/0,0004/<br>0,00007 | Ø 80              | <b>CNK2.1</b> | 1 unit(s) |  |

### Semi-micro balances, models calibrated ex works

| Type          | Weighing range (g) | Readability (g)            | Linearity (g)             | Reproducibility (g)          | Weighing pan (mm) | Art. No.      | Pack Qty. |  |
|---------------|--------------------|----------------------------|---------------------------|------------------------------|-------------------|---------------|-----------|--|
| 125D-1CEU (W) | 40 / 60 / 120      | 0,00001/0,00001/<br>0,0001 | ±0,0001/0,0001/<br>0,0002 | ±0,00002/0,00004/<br>0,00007 | Ø 80              | <b>CNK3.1</b> | 1 unit(s) |  |

### Standard models, cannot be calibrated

| Type       | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility (g) | Weighing pan (mm) | Art. No.      | Pack Qty. |  |
|------------|--------------------|-----------------|---------------|---------------------|-------------------|---------------|-----------|--|
| 64-1S      | 60                 | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | <b>AHC9.1</b> | 1 unit(s) |  |
| 124-1S (W) | 120                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | <b>NN59.1</b> | 1 unit(s) |  |
| 213-1S (W) | 210                | 0,001           | ±0,002        | ±0,001              | Ø 120             | <b>NN65.1</b> | 1 unit(s) |  |
| 224-1S (W) | 220                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | <b>NN57.1</b> | 1 unit(s) |  |
| 313-1S (W) | 310                | 0,001           | ±0,002        | ±0,001              | Ø 120             | <b>NN63.1</b> | 1 unit(s) |  |
| 412-1S     | 410                | 0,01            | ±0,03         | ±0,01               | Ø 180             | <b>AHE3.1</b> | 1 unit(s) |  |
| 513-1S (W) | 510                | 0,001           | ±0,002        | ±0,001              | Ø 120             | <b>NN61.1</b> | 1 unit(s) |  |
| 612-1S     | 610                | 0,01            | ±0,03         | ±0,01               | Ø 180             | <b>NN75.1</b> | 1 unit(s) |  |
| 613-1S (W) | 610                | 0,001           | ±0,002        | ±0,001              | Ø 120             | <b>AHE1.1</b> | 1 unit(s) |  |
| 1102-1S    | 1100               | 0,01            | ±0,03         | ±0,01               | Ø 180             | <b>NN73.1</b> | 1 unit(s) |  |
| 2101-1S    | 2100               | 0,1             | ±0,3          | ±0,1                | Ø 180             | <b>AHE7.1</b> | 1 unit(s) |  |
| 2102-1S    | 2100               | 0,01            | ±0,03         | ±0,01               | Ø 180             | <b>NN71.1</b> | 1 unit(s) |  |
| 3102-1S    | 3100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | <b>NN69.1</b> | 1 unit(s) |  |
| 5100-1S    | 5100               | 1               | ±1            | ±1                  | Ø 180             | <b>NN79.1</b> | 1 unit(s) |  |
| 5101-1S    | 5100               | 0,1             | ±0,3          | ±0,1                | Ø 180             | <b>NN77.1</b> | 1 unit(s) |  |
| 5102-1S    | 5100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | <b>NN67.1</b> | 1 unit(s) |  |
| 6100-1S    | 6100               | 1               | ±1            | ±1                  | Ø 180             | <b>AHH1.1</b> | 1 unit(s) |  |
| 6101-1S    | 6100               | 0,1             | ±0,3          | ±0,1                | Ø 180             | <b>AHE9.1</b> | 1 unit(s) |  |
| 6102-1S    | 6100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | <b>AHE5.1</b> | 1 unit(s) |  |

# Balances - Premium

## Standard models, calibrated ex works

| Type         | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility (g) | Weighing pan (mm) | Art. No. | Pack Qty. |  |
|--------------|--------------------|-----------------|---------------|---------------------|-------------------|----------|-----------|--|
| 64-1CEU (W)  | 60                 | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | AHE0.1   | 1 unit(s) |  |
| 124-1CEU (W) | 120                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | NN60.1   | 1 unit(s) |  |
| 213-1CEU (W) | 210                | 0,001           | ±0,002        | ±0,001              | Ø 120             | NN66.1   | 1 unit(s) |  |
| 224-1CEU (W) | 220                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | NN58.1   | 1 unit(s) |  |
| 313-1CEU (W) | 310                | 0,001           | ±0,002        | ±0,001              | Ø 120             | NN64.1   | 1 unit(s) |  |
| 513-1CEU (W) | 510                | 0,001           | ±0,002        | ±0,001              | Ø 120             | NN62.1   | 1 unit(s) |  |
| 612-1CEU     | 610                | 0,01            | ±0,03         | ±0,01               | Ø 180             | NN76.1   | 1 unit(s) |  |
| 613-1CEU (W) | 610                | 0,001           | ±0,002        | ±0,001              | Ø 120             | AHE2.1   | 1 unit(s) |  |
| 1102-1CEU    | 1100               | 0,01            | ±0,03         | ±0,01               | Ø 180             | NN74.1   | 1 unit(s) |  |
| 2102-1CEU    | 2100               | 0,01            | ±0,03         | ±0,01               | Ø 180             | NN72.1   | 1 unit(s) |  |
| 3102-1CEU    | 3100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | NN70.1   | 1 unit(s) |  |
| 5100-1CEU    | 5100               | 1               | ±1            | ±1                  | Ø 180             | NN80.1   | 1 unit(s) |  |
| 5101-1CEU    | 5100               | 0,1             | ±0,3          | ±0,1                | Ø 180             | NN78.1   | 1 unit(s) |  |
| 5102-1CEU    | 5100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | NN68.1   | 1 unit(s) |  |
| 6100-1CEU    | 6100               | 1               | ±1            | ±1                  | Ø 180             | AHH2.1   | 1 unit(s) |  |
| 6101-1CEU    | 6100               | 0,1             | ±0,3          | ±0,1                | Ø 180             | AHH0.1   | 1 unit(s) |  |
| 6102-1CEU    | 6100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | AHE6.1   | 1 unit(s) |  |

## Semi-micro and analytical balances GR series

A & D.

### Application:

- Percent, counting
- Selectable weight units: g, mg, ct



### Features:

- With internal automatic calibration function which adapts to changes in temperature
- Automatic adaptation to ambient conditions
- **Door opening system** allows the user to open the left- or right-hand side of the weighing chamber from the front of the balance. For easy access if you have only one hand free.
- Full-sized draft shield (internal height 215 mm); (W) = incl. draft shield
- Data storage function for storing 200 units of weighing data for output to PC. Windows-compatible software (for direct readout of data, e.g. in Excel), available for download free of charge.
- Interval storage mode (measuring cycle: 2 s, 5 s, 10 s, 30 s, 1 min, 2 min, 5 min or 10 min)
- With RS 232 data port
- Level indicator on the front

**Delivery incl.** mains adapter.

| Type       | Weighing range (g) | Readability (g) | Linearity (g)     | Reproducibility (g) | Weighing pan (mm) | Art. No. | Pack Qty. |  |
|------------|--------------------|-----------------|-------------------|---------------------|-------------------|----------|-----------|--|
| GR-202 (W) | 42 / 210           | 0,00001/0,0001  | ±0,00003 / 0,0001 | ±0,00002 / 0,0001   | Ø 85              | CTH0.1   | 1 unit(s) |  |
| GR-120 (W) | 120                | 0,0001          | ±0,0002           | ±0,0001             | Ø 85              | CTH1.1   | 1 unit(s) |  |
| GR-200 (W) | 210                | 0,0001          | ±0,0002           | ±0,0001             | Ø 85              | CTH2.1   | 1 unit(s) |  |
| GR-300 (W) | 310                | 0,0001          | ±0,0003           | ±0,0001             | Ø 85              | CTH3.1   | 1 unit(s) |  |



# Balances - Premium

## Semi-micro, analytical and precision balances Explorer™ series

Ohaus.

### Application:

- Numerous balance applications (item counting, percentage weighing, animal weighing, check weighing, batching etc.) and additional library for saving personal settings
- Various weighing units (e.g. g, mg, ct, etc.) can be set.
- High-resolution colour VGA touchscreen (145 mm diagonal) with QWERTY and number pad keyboards
- Touchscreen display can be detached from the weighing platform (cable length 1.5 m)



### Features:

- Metal housing, ABS upper housing shell and stainless steel weighing pan
- All models have a fully automatic time- and temperature-controlled internal calibration system (AutoCal)
- Full-sized draft shield for models with 0.0001 g/0.001 g readability (internal height 230 mm); (W) = incl. draft shield
- Multifunctional sensors for non-contact operation, e.g. contactless control of the zero/tare function to avoid specimen residues on the keypad. Two sensors on the platform and two on the display are independently adjustable.
- With USB and RS 232 communication ports
- Integrated weighing hook on underside of balance and illuminated level indicator on the front

**Delivery incl.** mains connector and industrial protective cover for display.

### Semi-micro balance models, cannot be calibrated

With ionizer and automatic doors installed.

| Type      | Weighing range (g) | Readability (g) | Linearity (g)    | Reproducibility (g) | Weighing pan (mm) | Art. No.      | Pack Qty. |  |
|-----------|--------------------|-----------------|------------------|---------------------|-------------------|---------------|-----------|--|
| EX225D/AD | 120 / 220          | 0.00001/0.0001  | ±0,0001 / 0,0001 | 0,00002 / 0,0001    | Ø 80              | <b>HPC4.1</b> | 1 unit(s) |  |

### Semi-micro balances, models calibrated ex works

With ionizer and automatic doors installed.

| Type       | Weighing range (g) | Readability (g) | Linearity (g)   | Reproducibility  | Weighing pan (mm) | Art. No.      | Pack Qty. |  |
|------------|--------------------|-----------------|-----------------|------------------|-------------------|---------------|-----------|--|
| EX225DM/AD | 120 / 220          | 0.00001/0.0001  | 0,0001 / 0,0001 | 0,00002 / 0,0001 | Ø 80              | <b>HPC5.1</b> | 1 unit(s) |  |

### Standard models cannot be calibrated

| Type       | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility (g) | Weighing pan (mm) | Art. No.      | Pack Qty. |  |
|------------|--------------------|-----------------|---------------|---------------------|-------------------|---------------|-----------|--|
| EX224 (W)  | 220                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | <b>PX41.1</b> | 1 unit(s) |  |
| EX324 (W)  | 320                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | <b>PX42.1</b> | 1 unit(s) |  |
| EX423 (W)  | 420                | 0,001           | ±0,002        | ±0,001              | Ø 130             | <b>PX43.1</b> | 1 unit(s) |  |
| EX1103 (W) | 1100               | 0,001           | ±0,002        | ±0,001              | Ø 130             | <b>PX44.1</b> | 1 unit(s) |  |
| EX4202     | 4200               | 0,01            | ±0,02         | ±0,01               | 190 x 200         | <b>PX45.1</b> | 1 unit(s) |  |
| EX10201    | 10200              | 0,1             | ±0,1          | ±0,1                | 190 x 200         | <b>PX47.1</b> | 1 unit(s) |  |
| EX10202    | 10200              | 0,01            | ±0,02         | ±0,01               | 190 x 200         | <b>PX46.1</b> | 1 unit(s) |  |

### Standard models, calibrated ex works

| Type        | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility (g) | Weighing pan (mm) | Art. No.      | Pack Qty. |  |
|-------------|--------------------|-----------------|---------------|---------------------|-------------------|---------------|-----------|--|
| EX224M (W)  | 220                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | <b>PX48.1</b> | 1 unit(s) |  |
| EX324M (W)  | 320                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | <b>PX49.1</b> | 1 unit(s) |  |
| EX423M (W)  | 420                | 0,001           | ±0,002        | ±0,001              | Ø 130             | <b>PX50.1</b> | 1 unit(s) |  |
| EX1103M (W) | 1100               | 0,001           | ±0,002        | ±0,001              | Ø 130             | <b>PX51.1</b> | 1 unit(s) |  |
| EX4202M     | 4200               | 0,01            | ±0,02         | ±0,01               | 190 x 200         | <b>PX52.1</b> | 1 unit(s) |  |
| EX10201M    | 10200              | 0,1             | ±0,1          | ±0,1                | 190 x 200         | <b>PX54.1</b> | 1 unit(s) |  |
| EX10202M    | 10200              | 0,01            | ±0,02         | ±0,01               | 190 x 200         | <b>PX53.1</b> | 1 unit(s) |  |



# Balances - Premium

## Standard models with auto-door function, cannot be calibrated

Including automatic, side-opening doors. Can be controlled by means of a non-contact sensor. Draft shield cover, folding or sliding.

| Type         | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility (g) | Weighing pan (mm) | Art. No. | Pack Qty. |
|--------------|--------------------|-----------------|---------------|---------------------|-------------------|----------|-----------|
| EX124/AD (W) | 120                | 0.0001          | ±0,0002       | ±0,0001             | Ø 90              | APA8.1   | 1 unit(s) |
| EX224/AD (W) | 220                | 0.0001          | ±0,0002       | ±0,0001             | Ø 90              | APA9.1   | 1 unit(s) |
| EX324/AD (W) | 320                | 0.0001          | ±0,0002       | ±0,0001             | Ø 90              | APC0.1   | 1 unit(s) |

## Standard models with auto door function, calibrated ex works

Including automatic, side-opening doors. Can be controlled by means of a non-contact sensor. Draft shield cover, folding or sliding.

| Type          | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility | Weighing pan (mm) | Art. No. | Pack Qty. |
|---------------|--------------------|-----------------|---------------|-----------------|-------------------|----------|-----------|
| EX224M/AD (W) | 220                | 0.0001          | 0,0002        | 0,0001          | Ø 90              | APC2.1   | 1 unit(s) |
| EX324M/AD (W) | 320                | 0.0001          | 0,0002        | 0,0001          | Ø 90              | APC3.1   | 1 unit(s) |

## Semi-micro, analytical and precision balances Secura® series

Sartorius.

### Application:

- Mixing, components, statistics, conversion, percentage weighing, checking, maximum value, counting, animal weighing
- Made in Germany



### Features:

- With isoCAL, internal calibration is performed automatically in a time or temperature controlled manner and after levelling
- Touchscreen optimised for users in the pharmaceuticals laboratory
- Optoelectronic levelling sensor with interactive user guidance** (if the sensor detects deviations, the risk is indicated immediately and a specific help text is displayed)
- 10 different menu language options can be selected
- Full-sized draft shield for models with 0.0001 g/0.001 g readability (internal height 209 mm); (W) = incl. draft shield
- Three configurable safety levels
- Mini USB port for automatic detection of YDP40 Sartorius standard printer (please order separately) or direct data transfer, e.g. to Microsoft® Excel, without additional software. Programmable interval for data output.
- Storage of completed calibration cycles incl. detected deviation
- Models with 0.01 g, 0.1 g and 1 g readability incl. protective cover for operation

### APC functions (Advanced Pharma Compliance) are possible:

- Monitoring of minimum sample weight according to USP
- Blocking of data transfer to printer or computer in case of uncertain weighing results e.g. non-level balance, etc.
- Please note:** APC functions are activated by a separate service. If this activation service is required, additional costs apply. Please check with our Sales Department.

**Delivery incl.** universal mains adapter (100–240 V).

### Semi-micro balances, models cannot be calibrated

| Type    | Weighing range (g) | Readability (g)            | Linearity (g)        | Reproducibility (g)         | Weighing pan (mm) | Art. No. | Pack Qty. |
|---------|--------------------|----------------------------|----------------------|-----------------------------|-------------------|----------|-----------|
| 125-1S  | 60/120             | 0.00001/0.00001            | 0,0001/0,0001        | 0,00002/0,00004             | Ø 80              | CNK4.1   | 1 unit(s) |
| 225D-1S | 60/120/220         | 0.00001/0.00001/<br>0.0001 | 0,0001/0,0001/0,0002 | 0,00002/0,00004/<br>0,00007 | Ø 80              | CNK6.1   | 1 unit(s) |

### Semi-micro balances, models calibrated ex works

| Type      | Weighing range (g) | Readability (g)            | Linearity (g)        | Reproducibility (g)         | Weighing pan (mm) | Art. No. | Pack Qty. |
|-----------|--------------------|----------------------------|----------------------|-----------------------------|-------------------|----------|-----------|
| 125-1CEU  | 60/120             | 0.00001/0.00001            | 0,0001/0,0001        | 0,00002/0,00004             | Ø 80              | CNK5.1   | 1 unit(s) |
| 225D-1CEU | 60/120/220         | 0.00001/0.00001/<br>0.0001 | 0,0001/0,0001/0,0002 | 0,00002/0,00004/<br>0,00007 | Ø 80              | CNK7.1   | 1 unit(s) |



# Balances - Premium

## Series Standard models, not calibrated

| Type           | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility (g) | Weighing pan (mm) | Art. No. | Pack Qty. |  |
|----------------|--------------------|-----------------|---------------|---------------------|-------------------|----------|-----------|--|
| 124-1S (W)     | 120                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | NN83.1   | 1 unit(s) |  |
| 213-1S (W)     | 210                | 0,001           | ±0,002        | ±0,001              | Ø 120             | NN89.1   | 1 unit(s) |  |
| 224-1S (W)     | 220                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | NN81.1   | 1 unit(s) |  |
| 313-1S (W)     | 310                | 0,001           | ±0,002        | ±0,001              | Ø 120             | NN87.1   | 1 unit(s) |  |
| 513-1S (W)     | 510                | 0,001           | ±0,002        | ±0,001              | Ø 120             | NN85.1   | 1 unit(s) |  |
| 613-1S (W)     | 610                | 0,001           | ±0,002        | ±0,001              | Ø 120             | AHH3.1   | 1 unit(s) |  |
| 612-1S / -1CEU | 610                | 0,01            | ±0,02         | ±0,01               | Ø 180             | AHH5.1   | 1 unit(s) |  |
| 1102-1S        | 1100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | NN97.1   | 1 unit(s) |  |
| 2102-1S        | 2100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | NN95.1   | 1 unit(s) |  |
| 3102-1S        | 3100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | NN93.1   | 1 unit(s) |  |
| 5102-1S        | 5100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | NN91.1   | 1 unit(s) |  |
| 6102-1S        | 6100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | AHH7.1   | 1 unit(s) |  |

## Standard models, calibrated ex works

| Type         | Weighing range (g) | Readability (g) | Linearity (g) | Reproducibility (g) | Weighing pan (mm) | Art. No. | Pack Qty. |  |
|--------------|--------------------|-----------------|---------------|---------------------|-------------------|----------|-----------|--|
| 124-1CEU (W) | 120                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | NN84.1   | 1 unit(s) |  |
| 213-1CEU (W) | 210                | 0,001           | ±0,002        | ±0,001              | Ø 120             | NN90.1   | 1 unit(s) |  |
| 224-1CEU (W) | 220                | 0,0001          | ±0,0002       | ±0,0001             | Ø 90              | NN82.1   | 1 unit(s) |  |
| 313-1CEU (W) | 310                | 0,001           | ±0,002        | ±0,001              | Ø 120             | NN88.1   | 1 unit(s) |  |
| 513-1CEU (W) | 510                | 0,001           | ±0,002        | ±0,001              | Ø 120             | NN86.1   | 1 unit(s) |  |
| 612-1CEU     | 610                | 0,01            | ±0,02         | ±0,01               | Ø 180             | AHH6.1   | 1 unit(s) |  |
| 613-1CEU (W) | 610                | 0,001           | ±0,002        | ±0,001              | Ø 120             | AHH4.1   | 1 unit(s) |  |
| 1102-1CEU    | 1100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | NN98.1   | 1 unit(s) |  |
| 2102-1CEU    | 2100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | NN96.1   | 1 unit(s) |  |
| 3102-1CEU    | 3100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | NN94.1   | 1 unit(s) |  |
| 5102-1CEU    | 5100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | NN92.1   | 1 unit(s) |  |
| 6102-1CEU    | 6100               | 0,01            | ±0,02         | ±0,01               | Ø 180             | AHH8.1   | 1 unit(s) |  |

Weighing technology

**Алматы** (7273)495-231  
**Ангарск** (3955)60-70-56  
**Архангельск** (8182)63-90-72  
**Астрахань** (8512)99-46-04  
**Барнаул** (3852)73-04-60  
**Белгород** (4722)40-23-64  
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**Воронеж** (473)204-51-73  
**Екатеринбург** (343)384-55-89

**Иваново** (4932)77-34-06  
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