



sartorius

## Secura®

### Benefits

- Top Performance
- Intuitive Operation
- Ergonomic Draft Shield
- Automatic Internal Adjustment
- Real-Time Level Support



### Product Information

Secura® gives you the security and peace of mind of knowing that you have done everything right. Besides providing highly accurate weighing results and operating convenience, Secura® also features built-in protection systems for complete reliability and regulatory compliance – the safe and secure way.

Real-time guidance prompts for leveling, automatic internal adjustment and 100% traceable, clear documentation with sample and batch identifiers make your lab work more efficient.

First, the new operating concept of Secura® will noticeably ease your daily workload during weighing and, second, its APC function – Advanced Pharma Compliance – will relieve you from tedious and time-consuming documentation and monitoring tasks.

## Technical Specifications

| AC Adapter  |  |
|---|--|
| Sartorius AC adaptor module 6971790 with interchangeable country-specific plug-in AC adaptors |  |
| Primary   | 100–240 V~, –10%   +10%,<br>50–60 Hz, 0.2 A  |
| Secondary   | 15 V DC, ± 5%, 530 mA (max.)  <br>8 Watt (max.): 0 to +40 °C and<br>15 V DC, ± 5%, 330 mA (max.)  <br>5 Watt (max.): 0 to +50 °C |
| Other data  | protection class II, in accordance<br>with EN   IEC 60950-1 up to<br>3000 m above sea level;<br>IP40 as per EN   IEC 60529       |

| Balance           |  |
|-------------------|--|
| Power supply      | only via Sartorius AC adaptor<br>module 6971790                                |
| Input voltage     | 12.0 ... 18.0 V DC   |
| Power consumption | 2.0 W (typically)<br>4.5 W (typically), only for 225D-1x,<br>125-1x and 324-1x |

| Ambient Conditions   |   |
|--|---|
| The specifications apply when the following ambient conditions are in place: |   |
| Environment  | for indoor use only   |
| Ambient temperature*   | +10 °C to +30 °C  |
| Operational capacity   | guaranteed between +5 °C and<br>+45 °C  |
| Storage and shipping   | –10 °C to +60 °C  |
| Elevation  | up to 3000 m above sea level  |
| Relative humidity**  | 15% to 80% for temperatures<br>up to 31 °C; non-condensing,<br>decreasing linearly to 50% relative<br>humidity at 40 °C and 20% at 50 °C  |
| Safety of electrical<br>equipment  | in accordance with EN 61010-1/<br>IEC 61010-1. Safety requirements<br>for electrical equipment for mea-<br>surement, control, and laboratory<br>use – Part 1: General requirements                                |
| Electromagnetic<br>compatibility   | in accordance with EN 61326-1/<br>IEC 61326-1. Electrical equipment<br>for measurement, control, and<br>laboratory use – EMC requirements<br>– Part 1: General requirements                                       |
| Defined immunity to<br>interference  | Suitable for use in industrial areas  |
| Interference emission  | Class B (suitable for use in<br>residential areas and areas that<br>are connected to a low voltage<br>network that also supplies<br>residential buildings).<br>The device can therefore be<br>used in both areas. |

Balances verified for use in legal metrology comply with the requirements of Council Directive 2009/23/EC, EN 45501:1992, and OIML R76:2006.

\* For balances verified for use in legal metrology in accordance with EU requirements, refer to the information on the balance.

\*\* For balances verified for use in legal metrology in accordance with EU requirements, the legal regulations apply.

### Standard Equipment

|              |   |
|--------------|---|
| APC Features | <ul style="list-style-type: none"> <li>– Monitoring of compliance with the USP minimum sample weight limits – SQmin</li> <li>– Password protection of set-up settings</li> <li>– Fully automatic temperature- and time-controlled internal calibration and adjustment – isoCAL</li> <li>– Temporary blockage of data transfer to a printer or a computer when uncertain weighing results are detected, such as a result is below the USP minimum sample weight limit, the balance is not level or isoCAL calibration   adjustment needs to be performed</li> <li>– Storage of all data of calibration procedures – Cal Audit Trail</li> </ul> |
|--------------|---|

|                           |  |
|---------------------------|--|
| Safety Level<br>Levelling | Three configurable levels of security<br>Intelligent, optoelectronic leveling sensor with alarm function and interactive user guidance for reliable leveling |
|---------------------------|--|

|             |  |
|-------------|--|
| Calibration | Internal calibration isoCAL,<br>External calibration |
|-------------|--|

|                                       |   |
|---------------------------------------|---|
| Selectable weight units <sup>1)</sup> | Gram, kilogram, carat, pound, ounce, troy ounce, Hong Kong tael, Singapore tael, Taiwan tael, grain, pennyweights, milligram, parts per pound, China tael, mommes, Austrian carat, tola, baht, mesghal and Newton |
|---------------------------------------|---|

|           |   |
|-----------|---|
| Interface | mini USB <ul style="list-style-type: none"> <li>– Automatic recognition of Sartorius printer models YDP30 or YDP40</li> <li>– Direct data transfer to Microsoft® Windows programs</li> <li>– Programmable interval for data output</li> <li>– Data transfer protocols SBI, xBPI, table format, text format</li> </ul> |
|-----------|---|

|         |  |
|---------|--|
| Display | Touch screen with Sartorius graphical user interface |
|---------|--|

### Standard Equipment

|                                |  |
|--------------------------------|--|
| Standard built-in applications | Weighing, Density, Percentage, Checkweighing, Peak Hold, Counting, Unstable Conditions   Animal weighing |
|--------------------------------|--|

|                                   |  |
|-----------------------------------|--|
| Special built-in lab applications | Mixing, Components, Statistics, Conversion |
|-----------------------------------|--|

|           |   |
|-----------|---|
| Languages | English, French, German, Hungarian, Italian, Polish, Portuguese, Russian, Spanish, Turkish, Chinese, Japanese, Korean |
|-----------|---|

|            |  |
|------------|--|
| Protection | <ul style="list-style-type: none"> <li>– Chemical resistant finish of the top housing</li> <li>– Glass parts of the draft shield are coated to reduce electrostatic influences</li> <li>– In-use cover</li> <li>– Dust cover for balances with draft shield</li> </ul> |
|------------|--|

|                 |  |
|-----------------|--|
| Anti-theft lock | Kensington lock and lockdown capability for cable or chain |
|-----------------|--|

<sup>1)</sup> Limited for verified models



## Standard Models

| Model  |         | 26-1x <sup>1)</sup> | 225D-1x <sup>1)</sup>   | 125-1x <sup>1)</sup>    | 324-1x <sup>1)</sup> |
|--|---------|---------------------|-------------------------|-------------------------|----------------------|
| Design   |         | 1                   | 2                       | 2                       | 2                    |
| Weighing capacity  | g       | 21                  | 60   120   220          | 60   120                | 320                  |
| Readability  | mg      | 0.002               | 0.01   0.01   0.1       | 0.01   0.01             | 0.1                  |
| Repeatability<br>(standard deviation)                          | mg      | 0.004               | 0.03   0.04   0.07      | 0.03   0.04             | 0.1                  |
| Repeatability<br>(standard deviation), typical                 | mg      | 0.003               | 0.02   0.04   0.07      | 0.02   0.04             | 0.1                  |
| Linearity deviation  | mg      | 0.01                | 0.1   0.1   0.2         | 0.1   0.1               | 0.3                  |
| Typical starting point of the<br>operating range <sup>2)</sup> | mg      | 4                   | 25**                    | 25**                    | 160                  |
| Optimal starting point of the<br>operating range <sup>2)</sup> | mg      | 1.64*               | 8.2**                   | 8.2**                   | 82                   |
| Sensitivity drift between<br>+10 °C and +30 °C                 | ± ppm/K | 1                   | 1                       | 1                       | 1                    |
| Typical stabilization time                                     | s       | 8                   | 6   6   2               | 6   6                   | 2                    |
| isoCAL:  |         |                     |                         |                         |                      |
| – Temperature change   | K       | 1.5                 | 1.5                     | 1.5                     | 1.5                  |
| – Time interval  | h       | 4                   | 4                       | 4                       | 4                    |
| Display result<br>(depending on the set filter level)          | s       | 0.2   0.4           | 0.2   0.4               | 0.2   0.4               | 0.2   0.2            |
| Weighing pan size  | mm      | ∅ 50                | ∅ 80<br>(optional ∅ 90) | ∅ 80<br>(optional ∅ 90) | ∅ 90                 |
| Weighing chamber height***                                     | mm      | 218                 | 218                     | 218                     | 218                  |
| Net weight, approx.  | kg      | 8.0                 | 7.8                     | 7.8                     | 7.9                  |
| IP protection class  |         | IP43                | IP43                    | IP43                    | IP43                 |



Design 1

Design 2

Design 3

Design 4

Design 5

\* In combination with glass draft shield YHK01SQP

\*\* In combination with weighing pan, 80 mm, slotted YSP01SQP

\*\*\* Upper edge of the weighing pan to the lower edge of the upper draft shield panel

<sup>1)</sup> Possible terms for country-specific models:

x = S: Standard balances without country-specific additions

x = SAR: Standard balances with country-specific additions for Argentina

x = SJP: Standard balances with country-specific additions for Japan

x = SKR: Standard balances with country-specific additions for South Korea

<sup>2)</sup> According to USP (United States Pharmacopeia) Chapter 41, the optimal operating range is defined from 820d to maximum weighing capacity. Depending on the installation location and environmental conditions, the value could be higher.

| Model  |         | 224-1x <sup>1)</sup> | 124-1x <sup>1)</sup> | 1103-1x <sup>1)</sup> | 613-1x <sup>1)</sup> | 513-1x <sup>1)</sup> | 313-1x <sup>1)</sup> | 213-1x <sup>1)</sup> | 6102-1x <sup>1)</sup> |
|--|---------|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| Design   |         | 3                    | 3                    | 4                     | 4                    | 4                    | 4                    | 4                    | 5                     |
| Weighing capacity  | g       | 220                  | 120                  | 1,100                 | 610                  | 510                  | 310                  | 210                  | 6,100                 |
| Readability  | mg      | 0.1                  | 0.1                  | 1                     | 1                    | 1                    | 1                    | 1                    | 10                    |
| Repeatability<br>(standard deviation)                          | mg      | 0.1                  | 0.1                  | 1                     | 1                    | 1                    | 1                    | 1                    | 10                    |
| Linearity  | mg      | 0.2                  | 0.2                  | 2                     | 2                    | 2                    | 2                    | 2                    | 20                    |
| Typical starting point of<br>the operating range <sup>2)</sup> | g       | 0.12                 | 0.12                 | 1.5                   | 1.5                  | 1.5                  | 1.5                  | 1.5                  | 12                    |
| Optimal starting point of<br>the operating range <sup>2)</sup> | g       | 0.082                | 0.082                | 0.82                  | 0.82                 | 0.82                 | 0.82                 | 0.82                 | 8.2                   |
| Sensitivity drift<br>between +10 to +30°C                      | ± ppm/K | 1.5                  | 1.5                  | 1.5                   | 2                    | 2                    | 2                    | 2                    | 2                     |
| Typical stabilization time                                     | s       | 2                    | 2                    | 1.5                   | 1                    | 1                    | 1                    | 1                    | 1                     |
| isoCAL Settings:   |         |                      |                      |                       |                      |                      |                      |                      |                       |
| – temperature change   | K       | 1.5                  | 1.5                  | 1.5                   | 2                    | 2                    | 2                    | 2                    | 2                     |
| – time interval  | h       | 4                    | 4                    | 4                     | 6                    | 6                    | 6                    | 6                    | 6                     |
| Display result (depending<br>on the filter level)              | s       | 0.2                  | 0.2                  | 0.1   0.2             | 0.1   0.2            | 0.1   0.2            | 0.1   0.2            | 0.1   0.2            | 0.1   0.2             |
| Weighing pan size  | mm      | ∅ 90                 | ∅ 90                 | ∅ 120                 | ∅ 120                | ∅ 120                | ∅ 120                | ∅ 120                | ∅ 180                 |
| Weighing chamber height***                                     | mm      | 209                  | 209                  | 209                   | 209                  | 209                  | 209                  | 209                  | –                     |
| Net weight, approx.  | kg      | 5.1                  | 5.1                  | 5.9                   | 5.1                  | 5.1                  | 5.1                  | 5.1                  | 5.2                   |

| Model  |         | 5102-1x <sup>1)</sup> | 3102-1x <sup>1)</sup> | 2102-1x <sup>1)</sup> | 1102-1x <sup>1)</sup> | 612-1x <sup>1)</sup> | 6101-1x <sup>1)</sup> | 3101-1x <sup>1)</sup> |
|--|---------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|
| Design   |         | 5                     | 5                     | 5                     | 5                     | 5                    | 5                     | 5                     |
| Weighing capacity  | g       | 5,100                 | 3,100                 | 2,100                 | 1,100                 | 610                  | 6,100                 | 3,100                 |
| Readability  | mg      | 10                    | 10                    | 10                    | 10                    | 10                   | 100                   | 100                   |
| Repeatability<br>(standard deviation)                          | mg      | 10                    | 10                    | 10                    | 10                    | 10                   | 50                    | 50                    |
| Linearity  | mg      | 20                    | 20                    | 20                    | 20                    | 20                   | 100                   | 100                   |
| Typical starting point of<br>the operating range <sup>2)</sup> | g       | 12                    | 12                    | 12                    | 12                    | 12                   | 82                    | 82                    |
| Optimal starting point of<br>the operating range <sup>2)</sup> | g       | 8.2                   | 8.2                   | 8.2                   | 8.2                   | 8.2                  | 82                    | 82                    |
| Sensitivity drift<br>between +10 to +30°C                      | ± ppm/K | 2                     | 2                     | 2                     | 2                     | 2                    | 2                     | 2                     |
| Typical stabilization time                                     | s       | 1                     | 1                     | 1                     | 1                     | 1                    | 1                     | 1                     |
| isoCAL Settings:   |         |                       |                       |                       |                       |                      |                       |                       |
| – temperature change   | K       | 2                     | 2                     | 2                     | 2                     | 2                    | 2                     | 2                     |
| – time interval  | h       | 6                     | 6                     | 6                     | 6                     | 6                    | 6                     | 6                     |
| Display result (depending<br>on the filter level)              | s       | 0.1   0.2             | 0.1   0.2             | 0.1   0.2             | 0.1   0.2             | 0.1   0.2            | 0.1   0.2             | 0.1   0.2             |
| Weighing pan size  | mm      | ∅ 180                 | ∅ 180                 | ∅ 180                 | ∅ 180                 | ∅ 180                | ∅ 180                 | ∅ 180                 |
| Net weight, approx.  | kg      | 5.2                   | 5.2                   | 5.2                   | 5.2                   | 5.2                  | 5.2                   | 5.2                   |

## Verified Models with Country-specific Type Approval Certificate

| Model   |    | 26-1x <sup>2)</sup>                  | 225D-1x <sup>2)</sup> | 125-1x <sup>2)</sup> | 324-1x <sup>2)</sup> |
|---|----|--------------------------------------|-----------------------|----------------------|----------------------|
| Design  |    | 1                                    | 2                     | 2                    | 2                    |
| Accuracy class  |    | Ⓢ                                    | Ⓢ                     | Ⓢ                    | Ⓢ                    |
| Type <sup>3)</sup>  |    | SQP-H                                | SQP-F                 | SQP-F                | SQP-G                |
| Max   | g  | 21                                   | 120   220             | 120                  | 320                  |
| Scale interval d  | g  | 0.000002                             | 0.00001   0.0001      | 0.00001              | 0.0001               |
| Verification scale interval e                               | g  | 0.001                                | 0.001                 | 0.001                | 0.001                |
| Min   | g  | 0.001                                | 0.001                 | 0.001                | 0.01                 |
| Min (only for Models ...-10IN)                              | g  | 0.1                                  | 0.1                   | 0.1                  | 0.1                  |
| Tare equalization range (subtractive)                       |    | <100 % of the max. weighing capacity |                       |                      |                      |
| Typical starting point of the operating range <sup>4)</sup> | g  | 0.004                                | 0.025**               | 0.025**              | 0.160                |
| Optimal starting point of the operating range <sup>4)</sup> | g  | 0.00164*                             | 0.0082**              | 0.0082**             | 0.082                |
| Typical stabilization time                                  | s  | 8                                    | 6   2                 | 6                    | 2                    |
| isoCAL:   |    |                                      |                       |                      |                      |
| – Temperature change  | K  | 1.5                                  | 1.5                   | 1.5                  | 1.5                  |
| – Time interval   | h  | 4                                    | 4                     | 4                    | 4                    |
| Display result (depending on the set filter level)          | s  | 0.2   0.4                            | 0.2   0.4             | 0.2   0.4            | 0.2   0.2            |
| Weighing pan size   | mm | ∅ 50                                 | ∅ 80 (optional ∅ 90)  | ∅ 80 (optional ∅ 90) | ∅ 90                 |
| Weighing chamber height***                                  | mm | 218                                  | 218                   | 218                  | 218                  |
| Net weight, approx.   | kg | 8.0                                  | 7.8                   | 7.8                  | 7.9                  |
| IP protection class   |    | IP43                                 | IP43                  | IP43                 | IP43                 |

\* In combination with glass draft shield YHK01SQP

\*\* In combination with weighing pan, 80 mm, slotted YSP01SQP

\*\*\* Upper edge of the weighing pan to the lower edge of the upper draft shield panel

<sup>2)</sup> Possible terms for country-specific models:

x = CEU: Verified balances with EC Type Approval Certificate D12-09-014 (for EU except France, Italy, and Switzerland)

x = CFR: Verified balances with EC Type Approval Certificate D12-09-014 for France only

x = CIT: Verified balances with EC Type Approval Certificate D12-09-014 for Italy only

x = CCH: Verified balances with EC Type Approval Certificate D12-09-014 for Switzerland only

x = CN: CMC Type Approval Certificate for China

x = OJP: Balance with Type Approval Certificate for Japan

x = OBR: Balance with Type Approval Certificate for Brazil

x = ORU: Balance with Type Approval Certificate for Russia

x = OIN: Balance with Type Approval Certificate for India

x = OAU: Balance with Type Approval Certificate for Australia

<sup>3)</sup> All models with "...CN": type "SQP"

<sup>4)</sup> According to USP (United States Pharmacopeia) Chapter 41, the optimal operating range is defined from 820d to maximum weighing capacity. Depending on the installation location and environmental conditions, the value could be higher.

| Model   |    | 224-1x <sup>2)</sup>             | 124-1x <sup>2)</sup> | 1103-1x <sup>2)</sup> | 613-1x <sup>2)</sup> | 513-1x <sup>2)</sup> | 313-1x <sup>2)</sup> | 213-1x <sup>2)</sup> |
|---|----|----------------------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|
| Design  |    | 3                                | 3                    | 4                     | 4                    | 4                    | 4                    | 4                    |
| Accuracy class  |    | Ⓘ                                | Ⓘ                    | Ⓘ                     | Ⓢ                    | Ⓢ                    | Ⓢ                    | Ⓢ                    |
| Type <sup>3)</sup>  |    | SQP-A                            | SQP-A                | SQP-I                 | SQP-B                | SQP-B                | SQP-B                | SQP-B                |
| Max   | g  | 220                              | 120                  | 1,100                 | 610                  | 510                  | 310                  | 210                  |
| Scale interval d  | mg | 0.1                              | 0.1                  | 1                     | 1                    | 1                    | 1                    | 1                    |
| Verification scale interval e                               | mg | 1                                | 1                    | 10                    | 10                   | 10                   | 10                   | 10                   |
| Min   | mg | 10                               | 10                   | 100                   | 20                   | 20                   | 20                   | 20                   |
| Min   | mg | 100                              | 100                  | 1,000                 | 200                  | 200                  | 200                  | 200                  |
| (only for Models ...-10IN)                                  |    |                                  |                      |                       |                      |                      |                      |                      |
| Tare (subtractive)  |    | < 100% of max. weighing capacity |                      |                       |                      |                      |                      |                      |
| Typical starting point of the operating range <sup>4)</sup> | g  | 0.12                             | 0.12                 | 1.5                   | 1.5                  | 1.5                  | 1.5                  | 1.5                  |
| Optimal starting point of the operating range <sup>4)</sup> | g  | 0.082                            | 0.082                | 0.82                  | 0.82                 | 0.82                 | 0.82                 | 0.82                 |
| Typical stabilization time                                  | s  | 2                                | 2                    | 1.5                   | 1                    | 1                    | 1                    | 1                    |
| isoCAL:   |    |                                  |                      |                       |                      |                      |                      |                      |
| - Temperature change  | K  | 1.5                              | 1.5                  | 1.5                   | 2                    | 2                    | 2                    | 2                    |
| - Time interval   | h  | 4                                | 4                    | 4                     | 6                    | 6                    | 6                    | 6                    |
| Display result (depending on the set filter level)          | s  | 0.2                              | 0.2                  | 0.1   0.2             | 0.1   0.2            | 0.1   0.2            | 0.1   0.2            | 0.1   0.2            |
| Weighing pan size   | mm | ∅ 90                             | ∅ 90                 | ∅ 120                 | ∅ 120                | ∅ 120                | ∅ 120                | ∅ 120                |
| Weighing chamber height***                                  | mm | 209                              | 209                  | 209                   | 209                  | 209                  | 209                  | 209                  |
| Net weight, approx.   | kg | 5.1                              | 5.1                  | 5.9                   | 5.1                  | 5.1                  | 5.1                  | 5.1                  |

| Model   |    | 6102-1x <sup>2)</sup>            | 5102-1x <sup>2)</sup> | 3102-1x <sup>2)</sup> | 2102-1x <sup>2)</sup> | 1102-1x <sup>2)</sup> | 612-1x <sup>2)</sup> | 6101-1x <sup>2)</sup> | 3101-1x <sup>2)</sup> |
|---|----|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|
| Design  |    | 5                                | 5                     | 5                     | 5                     | 5                     | 5                    | 5                     | 5                     |
| Accuracy class  |    | Ⓢ                                | Ⓢ                     | Ⓢ                     | Ⓢ                     | Ⓢ                     | Ⓢ                    | Ⓢ                     | Ⓢ                     |
| Type <sup>3)</sup>  |    | SQP-C                            | SQP-C                 | SQP-C                 | SQP-C                 | SQP-C                 | SQP-C                | SQP-C                 | SQP-C                 |
| Max   | g  | 6,100                            | 5,100                 | 3,100                 | 2,100                 | 1,100                 | 610                  | 6,100                 | 3,100                 |
| Scale interval d  | mg | 10                               | 10                    | 10                    | 10                    | 10                    | 10                   | 100                   | 100                   |
| Verification scale interval e                               | mg | 100                              | 100                   | 100                   | 100                   | 100                   | 100                  | 100                   | 100                   |
| Min   | mg | 500                              | 500                   | 500                   | 500                   | 500                   | 500                  | 5,000                 | 5,000                 |
| Min   | g  | 5                                | 5                     | 5                     | 5                     | 5                     | 5                    | 5                     | 5                     |
| (only for Models ...-10IN)                                  |    |                                  |                       |                       |                       |                       |                      |                       |                       |
| Tare (subtractive)  |    | < 100% of max. weighing capacity |                       |                       |                       |                       |                      |                       |                       |
| Typical starting point of the operating range <sup>4)</sup> | g  | 12                               | 12                    | 12                    | 12                    | 12                    | 12                   | 82                    | 82                    |
| Optimal starting point of the operating range <sup>4)</sup> | g  | 8.2                              | 8.2                   | 8.2                   | 8.2                   | 8.2                   | 8.2                  | 82                    | 82                    |
| Typical stabilization time                                  | s  | 1                                | 1                     | 1                     | 1                     | 1                     | 1                    | 1                     | 1                     |
| isoCAL:   |    |                                  |                       |                       |                       |                       |                      |                       |                       |
| - Temperature change  | K  | 2                                | 2                     | 2                     | 2                     | 2                     | 2                    | 2                     | 2                     |
| - Time interval   | h  | 6                                | 6                     | 6                     | 6                     | 6                     | 6                    | 6                     | 6                     |
| Display result (depending on the set filter level)          | s  | 0.1   0.2                        | 0.1   0.2             | 0.1   0.2             | 0.1   0.2             | 0.1   0.2             | 0.1   0.2            | 0.1   0.2             | 0.1   0.2             |
| Weighing pan size   | mm | ∅ 180                            | ∅ 180                 | ∅ 180                 | ∅ 180                 | ∅ 180                 | ∅ 180                | ∅ 180                 | ∅ 180                 |
| Net weight, approx.   | kg | 5.2                              | 5.2                   | 5.2                   | 5.2                   | 5.2                   | 5.2                  | 5.2                   | 5.2                   |

## Optional Accessories

| Printers and Communications   |           |
|---|-----------|
| Premium GLP Laboratory Printer  | YDP30     |
| – Printer paper for GLP laboratory printer  | 69Y03285  |
| – Endless labels for GLP laboratory printer   | 69Y03286  |
| Standard Laboratory Printer   | YDP40     |
| – Printer paper for standard laboratory printer   | 69Y03287  |
| Data communication cable, USB   USB A   | YCC04-D09 |
| Data communication cable, mini USB   RS232, 9-pin   | YCC03-D09 |
| Data communication cable, mini USB   RS232, 25-pin  | YCC03-D25 |
| General   |           |
| Battery Pack for Standard Lab Balances  | YRB11Z    |
| Draft shield for balances with a readability of 10 mg   | YDS01SQP  |
| Round glass draft shield for balances with a readability of 1 mg  | YDS02SQP  |
| Glass draft shield for balances with a readability of 0.002 mg, for increasing the weighing performance | YHK01SQP  |
| In-use cover for balances with a readability of 0.01 mg   0.002 mg                                      | 6960SE05  |
| In-use cover for balances with a readability of 0.1 mg   1 mg   | 6960SE01  |
| In-use cover for balances with a readability of 10 mg   | 6960SE02  |
| Dust cover for balances with a readability of 0.1 mg   1 mg   | 6960SE03  |
| Dust cover for balances with a readability of 0.01 mg   0.002 mg  | 6960SE04  |
| Certificate of USP minimum weight   | 84CGNA    |
| Weighing Pans (for balances design 1)   |           |
| Weighing pan, diameter 80 mm, slotted, for increasing the weighing performance                          | YSP01SQP  |
| Weighing pan, diameter 90 mm; includes conversion kit   | YWP01SQP  |
| Filter weighing pan, diameter 130 mm  | YFW01SQP  |
| Stainless steel weighing pan set, diameter 50 mm, for balances with a readability of 0.002 mg           | VF4589    |
| Density Determination   |           |
| Density kit for balances with a readability of 0.01 mg  | VF4601    |
| Density kit for balances with a readability of 0.1 mg   1 mg  | YDK03     |
| Density kit for balances with a readability of 10 mg  | YDK04     |

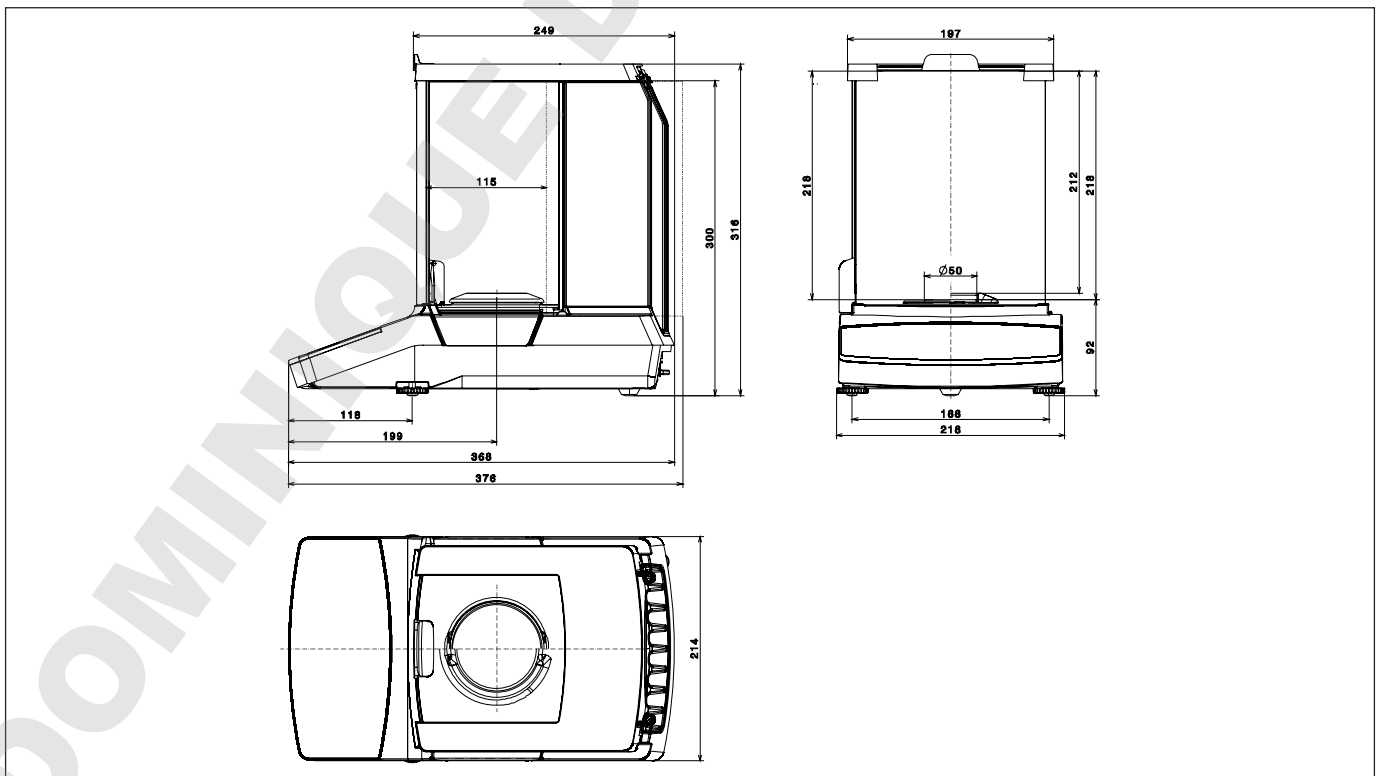


## Calibration Weights

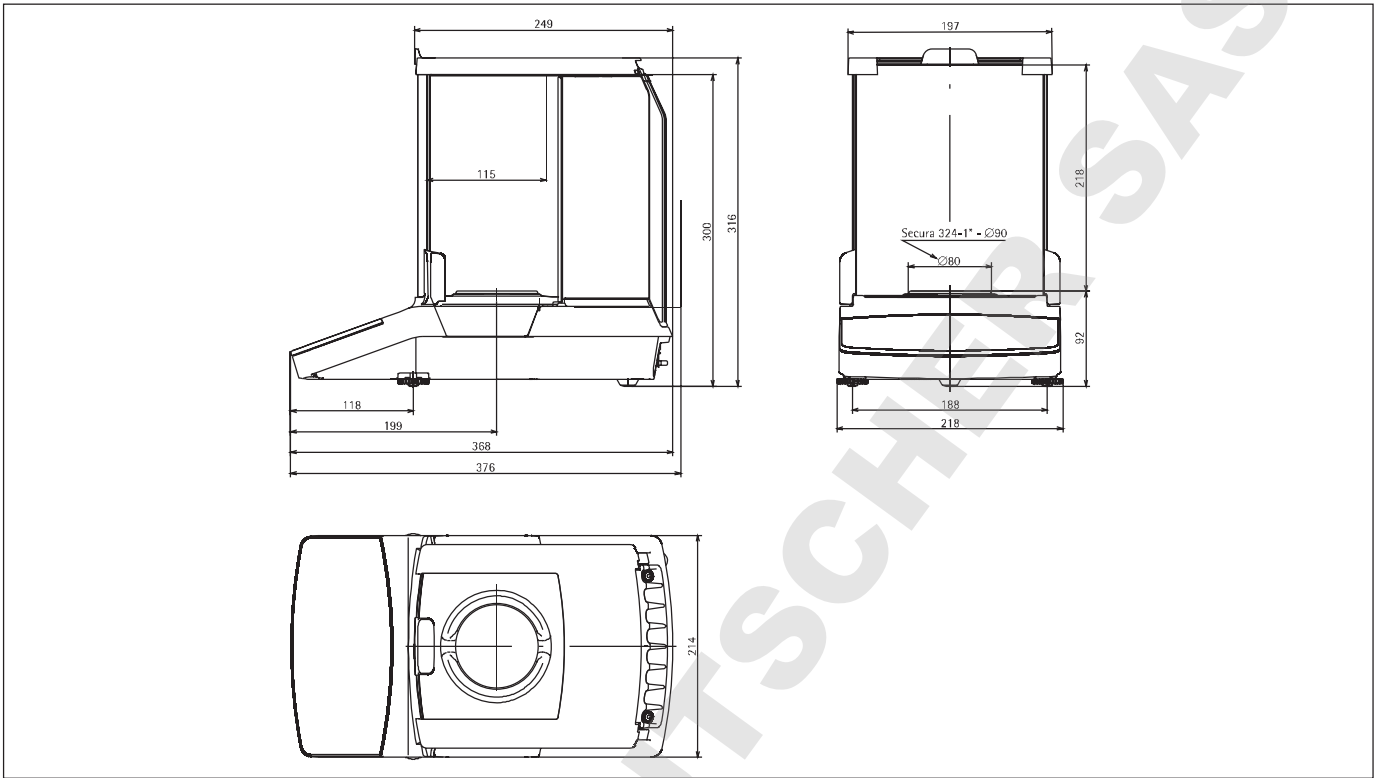
|  |              |
|--|--------------|
| Calibration weight for lab balance model 26<br>– Proof Line knob weight 20 g, OIML class E2, with DAkkS certificate                  | YCW422-AC-02 |
| Calibration weight for lab balance model 324; 224; 313; 213<br>– Proof Line knob weight 200 g, OIML class E2, with DAkkS certificate | YCW522-AC-02 |
| Calibration weight for lab balance model 225D; 125; 124<br>– Proof Line knob weight 100 g, OIML class E2, with DAkkS certificate     | YCW512-AC-02 |
| Calibration weight for lab balance model 613; 513; 612<br>– Proof Line knob weight 500 g, OIML class E2, with DAkkS certificate      | YCW552-AC-02 |
| Calibration weight for lab balance model 6102; 5102<br>– Proof Line knob weight 5 kg, OIML class E2, with DAkkS certificate          | YCW652-AC-02 |
| Calibration weight for lab balance model 3102; 2102<br>– Proof Line knob weight 2 kg, OIML class E2, with DAkkS certificate          | YCW622-AC-02 |
| Calibration weight for lab balance model 1103; 1102<br>– Proof Line knob weight 1 kg, OIML class E2, with DAkkS certificate          | YCW612-AC-02 |
| Calibration weight for lab balance model 6101<br>– Proof Line knob weight 5 kg, OIML class F1, with DAkkS certificate                | YCW653-AC-02 |
| Calibration weight for lab balance model 3101<br>– Proof Line knob weight 2 kg, OIML class F2, with DAkkS certificate                | YCW624-AC-02 |

## Technical Drawings

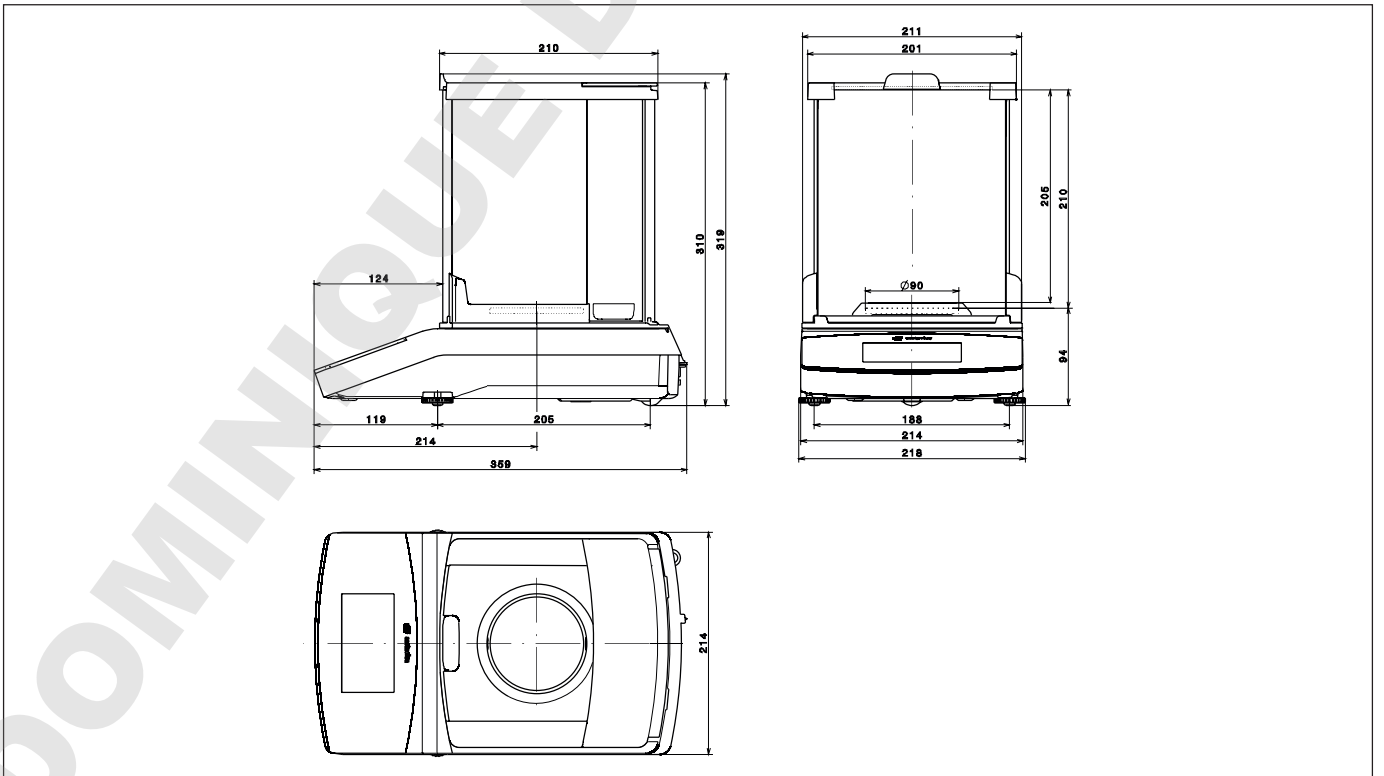
Models with a readability of 0.002 mg, in mm



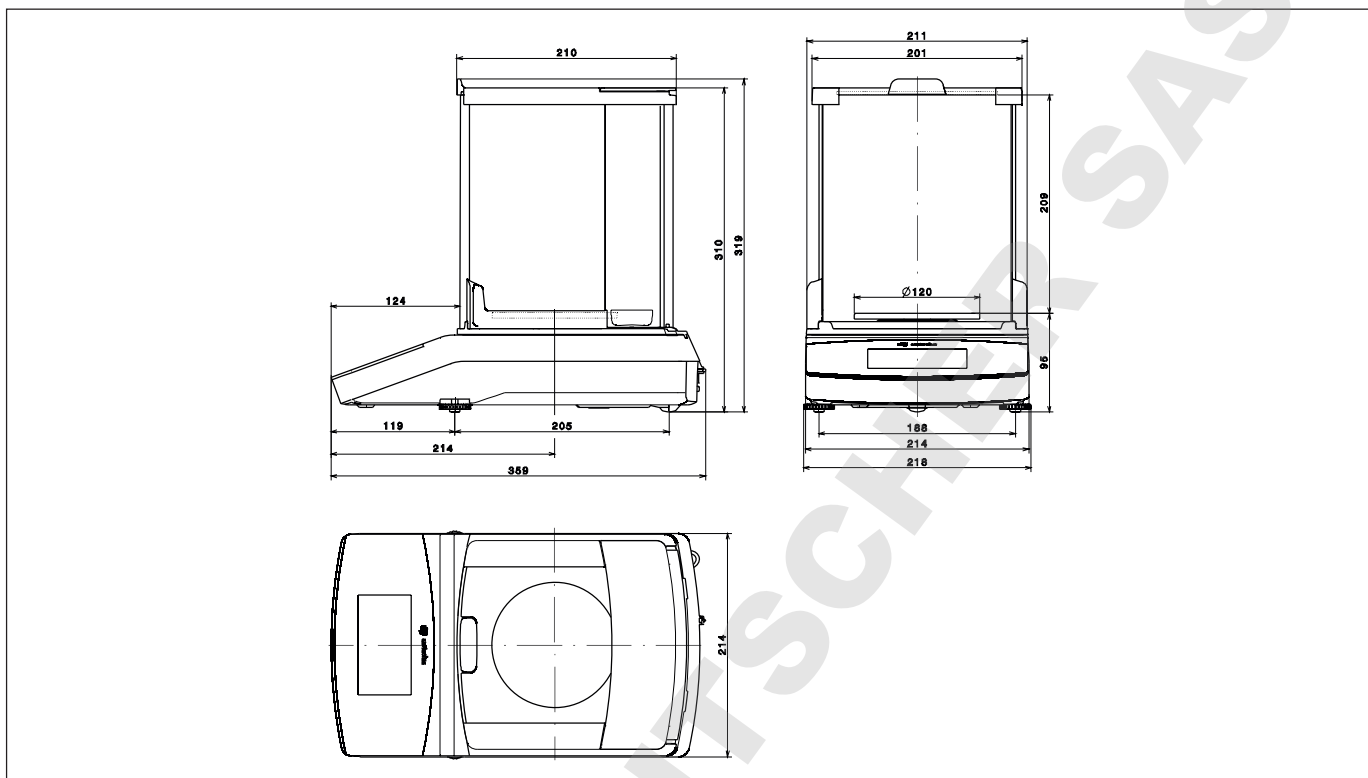
Models with a readability of 0.01 mg and 324-1x, in mm



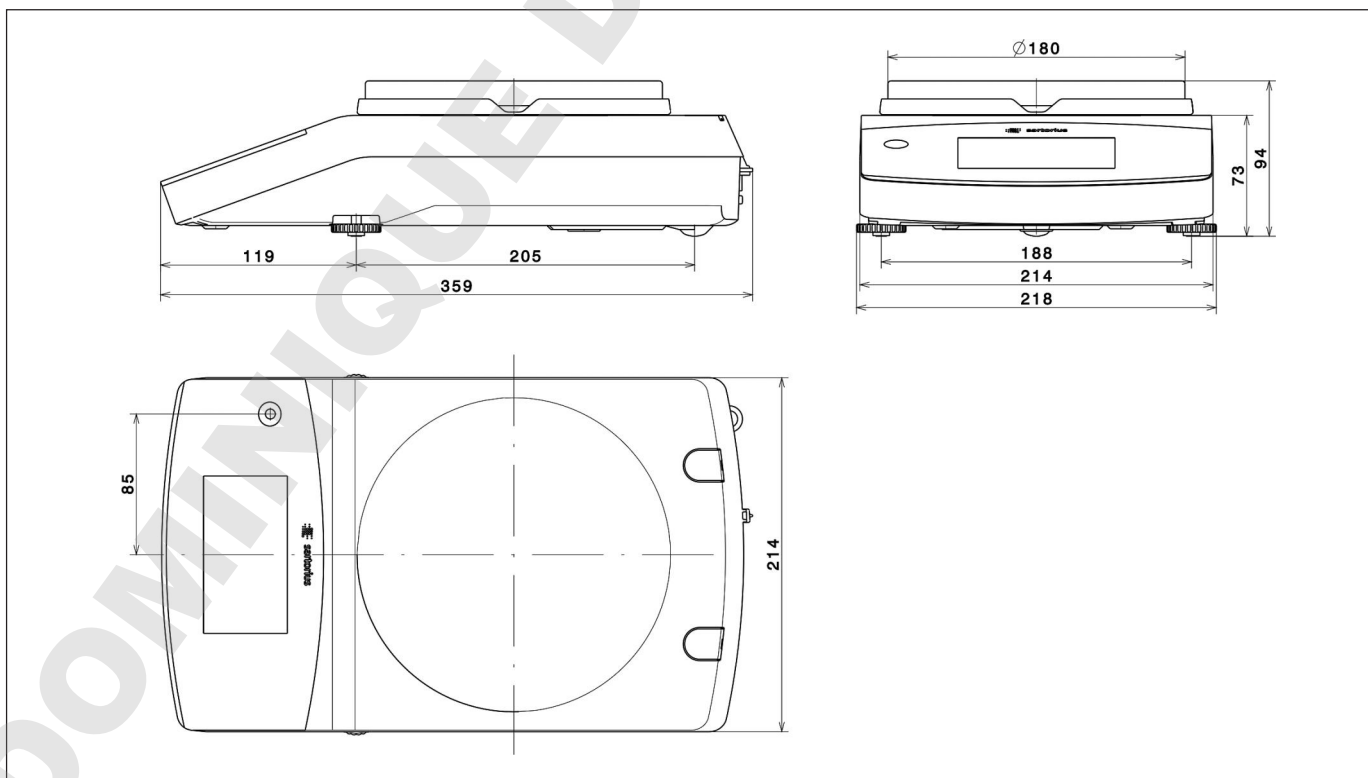
Models with a readability of 0.1 mg (except 324-1x), in mm



Models with a readability of 1 mg, in mm



Models with a readability of  $\geq 10$  mg, in mm



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