

Entris[®] II – Essential Line



Benefits

- Highly accurate results—guaranteed via monolithic weigh cell technology invented by Sartorius
- Fastest stabilization time in its class – using state-of-the-art weighing sensors
- High chemical resistance—ensured using parts made from hard-wearing polybutylene terephthalate (PBT), stainless steel and glass

Product Information

No matter what you're weighing, the new Entris[®] II is always the right choice. Offering unrivaled value at a budget price, this is the only balance in its class featuring isoCAL, LED touch technology and 12 built-in applications. Backed by almost 150 years of German engineering expertise, and available in 40 different models, you'll easily find an Entris[®] II balance that exactly meets your specific weighing needs.

Technical Specifications

General Technical Data

| Ambient Conditions | | Value |
|--|--|---|
| Installation site | For indoor use only, max. height above sea level | 3000 m |
| Temperature | Environment (metrological data)* Environment Storage and transport | +10 - +30 °C +5 - +40 °C -10 - +60 °C |
| Relative humidity** | At temperatures up to 31° C, non-condensing, then linear decrease from max. 80 % at 31° C to max. 50 % at 40° C | 15 - 80 % |
| No heat from heating systems or direct sunlight | | |
| No electromagnetic fields | | |
| Power Supply Device | | Value |
| Input voltage | | 15 V _{DC} (±10 %) |
| Power consumption, max | | 4 W |
| Only by Sartorius power supply unit YEPS01-15V0W with interchangeable country-specific plug-in AC adaptors | | |
| Power Supply Unit | | Value |
| Type: Sartorius power supply unit YEPS01-15V0W | | |
| Primary | Voltage | 100 - 240 VAC (±10 %) |
| | Frequency | 50 - 60 Hz |
| | Current consumption, maximum | 0.2 A |
| Secondary | Voltage | 15 VDC (±5 %) |
| | Current, maximum | 0.53 A |
| Short-circuit protection | | Electronic |
| Protection class according to IEC 60950-1 | | II |
| Pollution level according to IEC 61010-1 | | 2 |
| Overvoltage category according to IEC 60664-1 | | II |
| Other data: See label on the power supply unit | | |
| Electromagnetic Compatibility | | |
| Interference resistance: Suitable for use in industrial areas | | |
| Transient emissions | Class B Suitable for use in residential areas and areas that are connected to a low voltage network that also supplies residential buildings. | |
| Materials | | |
| Housing | Polybutylene terephthalate (PBT) | |
| Control module | Glass | |
| Draft shield | Glass polybutylene terephthalate (PBT) | |
| Weighing pan | Stainless steel | |
| Warm-up Time | | Value |
| Device, approx | | 2 h |

* For conformity-assessed (verified) balances in accordance with EU requirements, refer to the information on the balance.

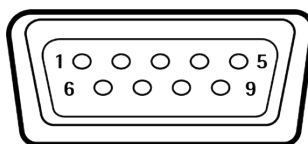
** For conformity-assessed (verified) balances in accordance with EU requirements, the legal regulations apply.

Interfaces

Specifications of the RS232 Interface

| | |
|----------------------|------------------------|
| Type of interface | Serial interface |
| Interface operation | Full duplex |
| Level | RS232 |
| Connection | D-sub connector, 9-pin |
| Maximum cable length | 10 m |

Pin assignment



Pin 1: Not assigned
Pin 2: Data output (TxD)
Pin 3: Data input (RxD)
Pin 4: Not assigned
Pin 5: Internal ground
Pin 6: Not assigned
Pin 7: Clear to Send (CTS)
Pin 8: Request to Send (RTS)
Pin 9: Universal key

Specifications for the USB-C Interface

| | |
|---------------------|--|
| Communication | USB UTL |
| Connectable devices | Sartorius printers, Sartorius second display or PC |

Calibration

Internal calibration isoCAL (models with marking i-1x)

External calibration

Selectable Weight Units*

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

Display

Intuitive, wear resistant LED screen with touch technology

Built-in Applications

- Weighing | Dosing
 - Counting
 - Percentage weighing
 - Mixing | Net total
 - Components | Totalizing
 - Animal weighing
 - Calculation | Free factor
 - Density determination
 - Underfloor weighing feature for bigger samples
 - Statistics
 - Peakhold
 - Checkweighing
 - Mass unit conversion
-

Languages

English, German, France, Italian, Spanish, Portuguese, Russian, Polish

Protection

- Chemical resistant housing parts
 - Glass parts of the draft shield are coated to reduce electrostatic influences
 - Display foil (available as accessory)
 - Dust cover for balances with draft shield
-

Anti-theft Lock

Kensington lock and lockdown capability for cable or chain

* The availability of units depends on national legislation and is therefore country-specific.

Models with internal adjustment feature

| Model | Unit | 224i-1x ¹ | 124i-1x ¹ | 64i-1x ¹ | 653i-1x ¹ | 623i-1x ¹ | 423i-1x ¹ | 323i-1x ¹ | 223i-1x ¹ |
|---|--------|---------------------------|----------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Readability Scale interval (d) | mg | 0.1 | 0.1 | 0.1 | 1 | 1 | 1 | 1 | 1 |
| Maximum capacity (Max) | g | 220 | 120 | 60 | 650 | 620 | 420 | 320 | 220 |
| Weighing system | | EMC | EMC | EMC | EMC | EMC | EMC | EMC | EMC |
| Repeatability | | | | | | | | | |
| At 5% load, typical value | ±mg | 0.08 | 0.08 | 0.08 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| At approx. maximum load, typical value | ±mg | 0.1 | 0.1 | 0.1 | 1 | 1 | 1 | 1 | 1 |
| Linearity deviation | | | | | | | | | |
| Limits | ±mg | 0.2 | 0.2 | 0.2 | 2 | 2 | 2 | 2 | 2 |
| Typical value | ±mg | 0.06 | 0.06 | 0.06 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Sensitivity drift between +10 °C and +30 °C | ±ppm/K | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 |
| Tare maximum capacity (subtractive) | | <100% of maximum capacity | | | | | | | |
| isoCAL (only for i-1x models): | | | | | | | | | |
| 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 |
| For models with approval: | | | | | | | | | |
| Accuracy class | | I | I | I | II | II | II | II | II |
| Type | | BC-EB | BC-EB | BC-EB | BC-ED | BC-ED | BC-ED | BC-ED | BC-ED |
| Verification scale interval (e) | mg | 1 | 1 | 1 | 10 | 10 | 10 | 10 | 10 |
| Minimum load (Min) | mg | 10 | 10 | 10 | 20 | 20 | 20 | 20 | 20 |
| Minimum initial weighing according to USP (United States Pharmacopeia), Chap. 41 | | | | | | | | | |
| Optimum minimum initial weighing | g | 0.082 | 0.082 | 0.082 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 |
| Typical minimum initial weighing | g | 0.16 | 0.16 | 0.16 | 1 | 1 | 1 | 1 | 1 |
| Typical measurement time | s | ≤ 2.0 | ≤ 2.0 | ≤ 2.0 | ≤ 1.5 | ≤ 1.5 | ≤ 1.5 | ≤ 1.5 | ≤ 1.5 |
| Typical stabilization time | s | ≤ 1.5 | ≤ 1.5 | ≤ 1.5 | ≤ 1.0 | ≤ 1.0 | ≤ 1.0 | ≤ 1.0 | ≤ 1.0 |
| Recommended calibration weight | | | | | | | | | |
| External calibrated test weight | g | 200 | 100 | 50 | 500 | 500 | 200 | 200 | 200 |
| Accuracy class in accordance with OIML R111-1 | | E2 | E2 | E2 | F1 | F1 | F1 | F1 | F1 |
| Weighing pan size | mm | Ø 90 | Ø 90 | Ø 90 | Ø 120 | Ø 120 | Ø 120 | Ø 120 | Ø 120 |
| Weighing chamber height* | mm | 240 | 240 | 240 | 50 | 240 | 240 | 240 | 240 |
| Net weight, approx. | kg | 6.20 | 6.20 | 6.20 | 4.80 | 6.30 | 6.30 | 6.30 | 6.30 |
| Gross weight, approx. | kg | 8.00 | 8.00 | 8.00 | 6.20 | 8.10 | 8.10 | 8.10 | 8.10 |

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

¹ Country-specific marking in model:

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
x = CCN: Balances with approval for China
x = CEU: Conformity-assessed balances with EU type examination certificate without country-specific additions

x = CFR: Conformity-assessed balances with EU type examination certificate only for France
x = OBR: Balances with approval for Brazil
x = OIN: Balances with approval for India
x = OJP: Balances with approval for Japan
x = ORU: Balances with approval for Russia

| 6202i-1x ¹ | 4202i-1x ¹ | 3202i-1x ¹ | 2202i-1x ¹ | 1202i-1x ¹ | 822i-1x ¹ | 622i-1x ¹ | 8201i-1x ¹ | 5201i-1x ¹ | 2201i-1x ¹ | 8200i-1x ¹ | 6200i-1x ¹ |
|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 100 | 100 | 100 | 1,000 | 1,000 |
| 6,200 | 4,200 | 3,200 | 2,200 | 1,200 | 820 | 620 | 8,200 | 5,200 | 2,200 | 8,200 | 6,200 |
| EMC | EMC | EMC | EMC | EMC | EMC | EMC | EMC | EMC | EMC | EMC | EMC |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 50 | 50 | 50 | 500 | 500 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 100 | 100 | 100 | 1,000 | 1,000 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 100 | 100 | 100 | 1,000 | 1,000 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 60 | 60 | 60 | 600 | 600 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 4 | 4 |
| <100% of maximum capacity | | | | | | | | | | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| II | II | II | II | II | II | II | II | II | II | II | II |
| BC-EE | BC-EE | BC-EE | BC-EE | BC-EE | BC-EE | BC-EE | BC-EG | BC-EE | BC-EE | BC-EG | BC-EG |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1,000 | 100 | 100 | 1,000 | 1,000 |
| 500 | 500 | 500 | 500 | 500 | 500 | 500 | 5,000 | 5,000 | 5,000 | 50,000 | 50,000 |
| 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 82 | 82 | 82 | 820 | 820 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 100 | 100 | 100 | 1,000 | 1,000 |
| ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 |
| ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 |
| 5,000 | 2,000 | 2,000 | 2,000 | 1,000 | 500 | 500 | 5,000 | 5,000 | 2,000 | 5,000 | 5,000 |
| F1 | F1 | F1 | F1 | F1 | F2 | F2 | F2 | F2 | F2 | F2 | F2 |
| 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 6.20 | 6.20 | 6.20 | 6.20 | 6.20 | 6.20 | 6.20 | 6.20 | 6.20 | 6.20 | 6.20 | 6.20 |
| 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |

Models without internal adjustment feature, with approval

| Model | Unit | 224-1x ¹ | 124-1x ¹ | 64-1x ¹ | 653-1x ¹ | 623-1x ¹ | 423-1x ¹ | 323-1x ¹ | 223-1x ¹ |
|---|--------|---------------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Readability Scale interval (d) | mg | 0.1 | 0.1 | 0.1 | 1 | 1 | 1 | 1 | 1 |
| Maximum capacity (Max) | g | 220 | 120 | 60 | 650 | 620 | 420 | 320 | 220 |
| Weighing system | | EMC | EMC | EMC | EMC | EMC | EMC | EMC | EMC |
| Repeatability | | | | | | | | | |
| At 5% load, typical value | ±mg | 0.08 | 0.08 | 0.08 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| At approx. maximum load, typical value | ±mg | 0.1 | 0.1 | 0.1 | 1 | 1 | 1 | 1 | 1 |
| Linearity deviation | | | | | | | | | |
| Limits | ±mg | 0.2 | 0.2 | 0.2 | 2 | 2 | 2 | 2 | 2 |
| Typical value | ±mg | 0.06 | 0.06 | 0.06 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Sensitivity drift between +10 °C and +30 °C | ±ppm/K | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 |
| Tare maximum capacity (subtractive) | | <100% of maximum capacity | | | | | | | |
| For models with approval: | | | | | | | | | |
| Accuracy class | | I | I | I | II | II | II | II | II |
| Type | | BC-EB | BC-EB | BC-EB | BC-ED | BC-ED | BC-ED | BC-ED | BC-ED |
| Verification scale interval (e) | mg | 1 | 1 | 1 | 10 | 10 | 10 | 10 | 10 |
| Minimum load (Min) | mg | 10 | 10 | 10 | 20 | 20 | 20 | 20 | 20 |
| Minimum initial weighing according to USP (United States Pharmacopeia), Chap. 41 | | | | | | | | | |
| Optimum minimum initial weighing | g | 0.082 | 0.082 | 0.082 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 |
| Typical minimum initial weighing | g | 0.16 | 0.16 | 0.16 | 1 | 1 | 1 | 1 | 1 |
| Typical measurement time | s | ≤2.0 | ≤2.0 | ≤2.0 | ≤1.5 | ≤1.5 | ≤1.5 | ≤1.5 | ≤1.5 |
| Typical stabilization time | s | ≤1.5 | ≤1.5 | ≤1.5 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 |
| Recommended calibration weight | | | | | | | | | |
| External calibrated test weight | g | 200 | 100 | 50 | 500 | 500 | 200 | 200 | 200 |
| Accuracy class in accordance with OIML R111-1 | | E2 | E2 | E2 | F1 | F1 | F1 | F1 | F1 |
| Weighing pan size | mm | Ø 90 | Ø 90 | Ø 90 | Ø 120 | Ø 120 | Ø 120 | Ø 120 | Ø 120 |
| Weighing chamber height* | mm | 240 | 240 | 240 | 50 | 240 | 240 | 240 | 240 |
| Net weight, approx. | kg | 5.90 | 5.90 | 5.90 | 4.50 | 5.90 | 5.90 | 5.90 | 5.90 |
| Gross weight, approx. | kg | 7.70 | 7.70 | 7.70 | 5.80 | 7.70 | 7.70 | 7.70 | 7.70 |

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

¹ Country-specific marking in model:
x = CCN: Balances with approval for China
x = OIN: Balances with approval for India

| 6202-1x ¹ | 4202-1x ¹ | 3202-1x ¹ | 2202-1x ¹ | 1202-1x ¹ | 822-1x ¹ | 622-1x ¹ | 8201-1x ¹ | 5201-1x ¹ | 2201-1x ¹ | 8200-1x ¹ | 6200-1x ¹ |
|---------------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 100 | 100 | 100 | 1,000 | 1,000 |
| 6,200 | 4,200 | 3,200 | 2,200 | 1,200 | 820 | 620 | 8,200 | 5,200 | 2,200 | 8,200 | 6,200 |
| EMC | EMC | EMC | EMC | EMC | EMC | EMC | Strain gauge | EMC | EMC | Strain gauge | Strain gauge |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 50 | 50 | 50 | 500 | 500 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 100 | 100 | 100 | 1,000 | 1,000 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 300 | 100 | 100 | 1,000 | 1,000 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 100 | 60 | 60 | 600 | 600 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 2 | 2 | 7 | 7 |
| <100% of maximum capacity | | | | | | | | | | | |
| II | II | II | II | II | II | II | II | II | II | II | II |
| BC-EE | BC-EE | BC-EE | BC-EE | BC-EE | BC-EE | BC-EE | BC-EI | BC-EE | BC-EE | BC-EI | BC-EI |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1,000 | 100 | 100 | 1,000 | 1,000 |
| 500 | 500 | 500 | 500 | 500 | 500 | 500 | 5,000 | 5,000 | 5,000 | 50,000 | 50,000 |
| 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 82 | 82 | 82 | 820 | 820 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 100 | 100 | 100 | 1,000 | 1,000 |
| ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 |
| ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 |
| 5,000 | 2,000 | 2,000 | 2,000 | 1,000 | 500 | 500 | 5,000 | 5,000 | 2,000 | 5,000 | 5,000 |
| F1 | F1 | F1 | F1 | F1 | F2 | F2 | F2 | F2 | F2 | F2 | F2 |
| 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.30 | 4.60 | 4.60 | 4.30 | 4.30 |
| 5.40 | 5.40 | 5.40 | 5.40 | 5.40 | 5.40 | 5.40 | 5.10 | 5.40 | 5.40 | 5.10 | 5.10 |

Models without internal adjustment feature, without approval

| Model | Unit | 224-1x ¹ | 124-1x ¹ | 64-1x ¹ | 653-1x ¹ | 623-1x ¹ | 423-1x ¹ | 323-1x ¹ | 223-1x ¹ |
|---|--------|---------------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Readability Scale interval (d) | mg | 0.1 | 0.1 | 0.1 | 1 | 1 | 1 | 1 | 1 |
| Maximum capacity (Max) | g | 220 | 120 | 60 | 650 | 620 | 420 | 320 | 220 |
| Weighing system | | EMC | EMC | EMC | EMC | EMC | EMC | EMC | EMC |
| Repeatability | | | | | | | | | |
| At 5% load, typical value | ±mg | 0.08 | 0.08 | 0.08 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| At approx. maximum load, typical value | ±mg | 0.1 | 0.1 | 0.1 | 1 | 1 | 1 | 1 | 1 |
| Linearity deviation | | | | | | | | | |
| Limits | ±mg | 0.2 | 0.2 | 0.2 | 2 | 2 | 2 | 2 | 2 |
| Typical value | ±mg | 0.06 | 0.06 | 0.06 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Sensitivity drift between +10 °C and +30 °C | ±ppm/K | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 |
| Tare maximum capacity (subtractive) | | <100% of maximum capacity | | | | | | | |
| Minimum initial weighing according to USP (United States Pharmacopeia), Chap. 41 | | | | | | | | | |
| Optimum minimum initial weighing | g | 0.082 | 0.082 | 0.082 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 |
| Typical minimum initial weighing | g | 0.16 | 0.16 | 0.16 | 1 | 1 | 1 | 1 | 1 |
| Typical measurement time | s | ≤2.0 | ≤2.0 | ≤2.0 | ≤1.5 | ≤1.5 | ≤1.5 | ≤1.5 | ≤1.5 |
| Typical stabilization time | s | ≤1.5 | ≤1.5 | ≤1.5 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 |
| Recommended calibration weight | | | | | | | | | |
| External calibrated test weight | g | 200 | 100 | 50 | 500 | 500 | 200 | 200 | 200 |
| Accuracy class in accordance with OIML R111-1 | | E2 | E2 | E2 | F1 | F1 | F1 | F1 | F1 |
| Weighing pan size | mm | Ø 90 | Ø 90 | Ø 90 | Ø 120 | Ø 120 | Ø 120 | Ø 120 | Ø 120 |
| Weighing chamber height* | mm | 240 | 240 | 240 | 50 | 240 | 240 | 240 | 240 |
| Net weight, approx. | kg | 5.90 | 5.90 | 5.90 | 4.50 | 5.90 | 5.90 | 5.90 | 5.90 |
| Gross weight, approx. | kg | 7.70 | 7.70 | 7.70 | 5.80 | 7.70 | 7.70 | 7.70 | 7.70 |

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

¹ Country-specific marking in model:

x = S: Standard balances without country-specific additions

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

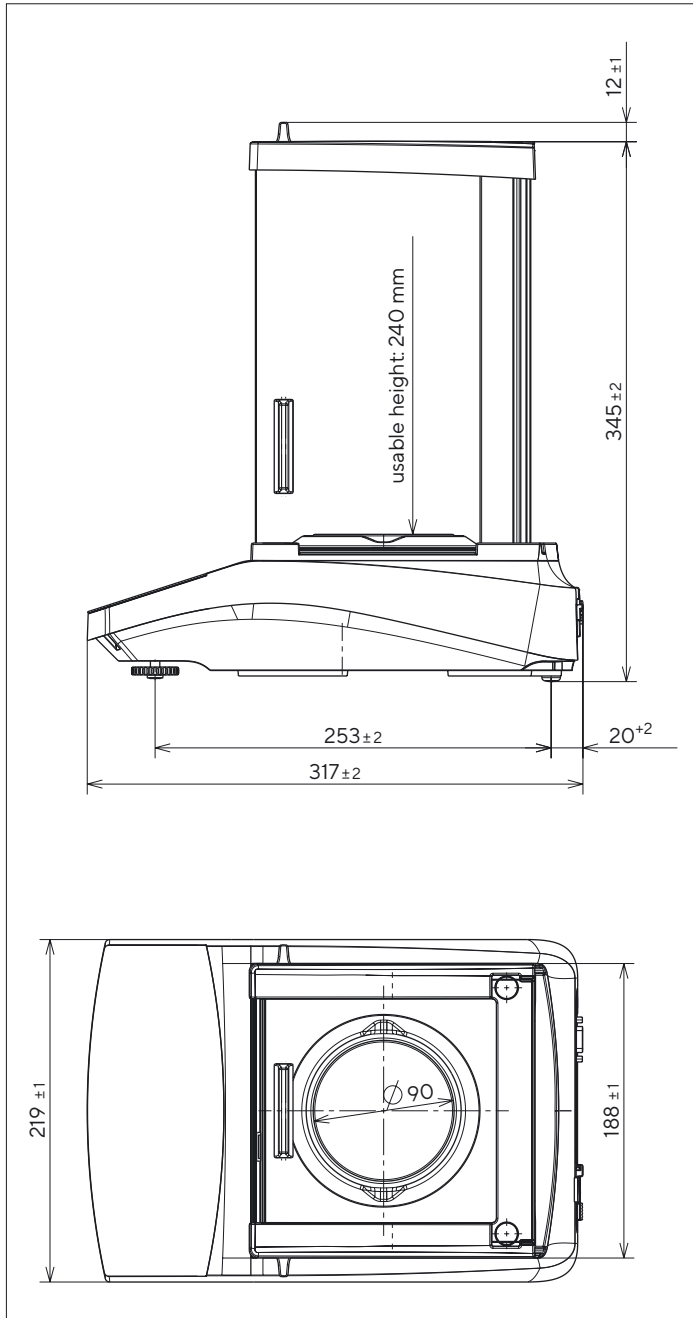
x = SJP: Standard balances with country-specific additions for Japan

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

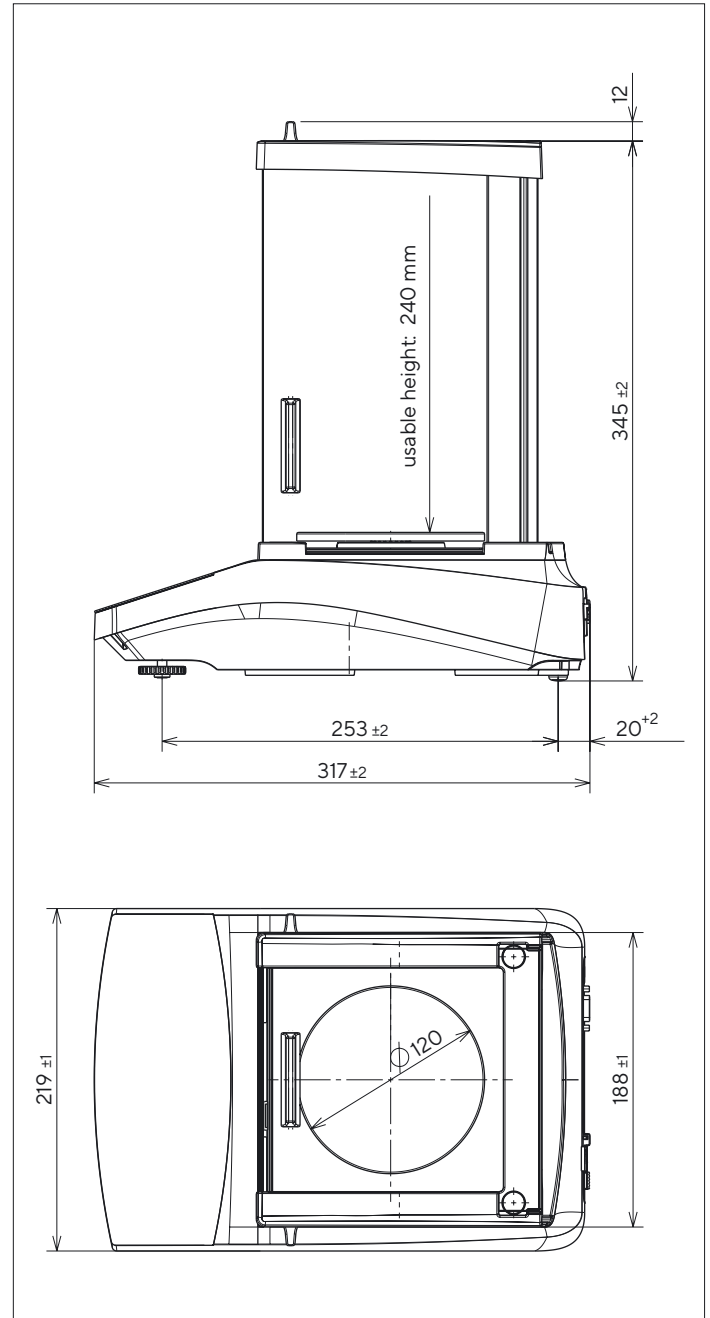
| 6202-1x ¹ | 4202-1x ¹ | 3202-1x ¹ | 2202-1x ¹ | 1202-1x ¹ | 822-1x ¹ | 622-1x ¹ | 8201-1x ¹ | 5201-1x ¹ | 2201-1x ¹ | 8200-1x ¹ | 6200-1x ¹ |
|---------------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 100 | 100 | 100 | 1,000 | 1,000 |
| 6,200 | 4,200 | 3,200 | 2,200 | 1,200 | 820 | 620 | 8,200 | 5,200 | 2,200 | 8,200 | 6,200 |
| EMC | EMC | EMC | Strain gauge | Strain gauge | Strain gauge | Strain gauge | Strain gauge | Strain gauge | Strain gauge | Strain gauge | Strain gauge |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 50 | 50 | 50 | 500 | 500 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 100 | 100 | 100 | 1,000 | 1,000 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 300 | 300 | 300 | 1,000 | 1,000 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 100 | 100 | 100 | 600 | 600 |
| 2 | 2 | 2 | 3.5 | 3.5 | 3.5 | 3.5 | 7 | 7 | 7 | 7 | 7 |
| <100% of maximum capacity | | | | | | | | | | | |
| 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 82 | 82 | 82 | 820 | 820 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 100 | 100 | 100 | 1,000 | 1,000 |
| ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 | ≤1.0 |
| ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 | ≤0.9 |
| 5,000 | 2,000 | 2,000 | 2,000 | 1,000 | 500 | 500 | 5,000 | 5,000 | 2,000 | 5,000 | 5,000 |
| F1 | F1 | F1 | F1 | F1 | F2 | F2 | F2 | F2 | F2 | F2 | F2 |
| 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 | 182 × 182 |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 4.60 | 4.60 | 4.60 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 |
| 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 |

Technical Drawings

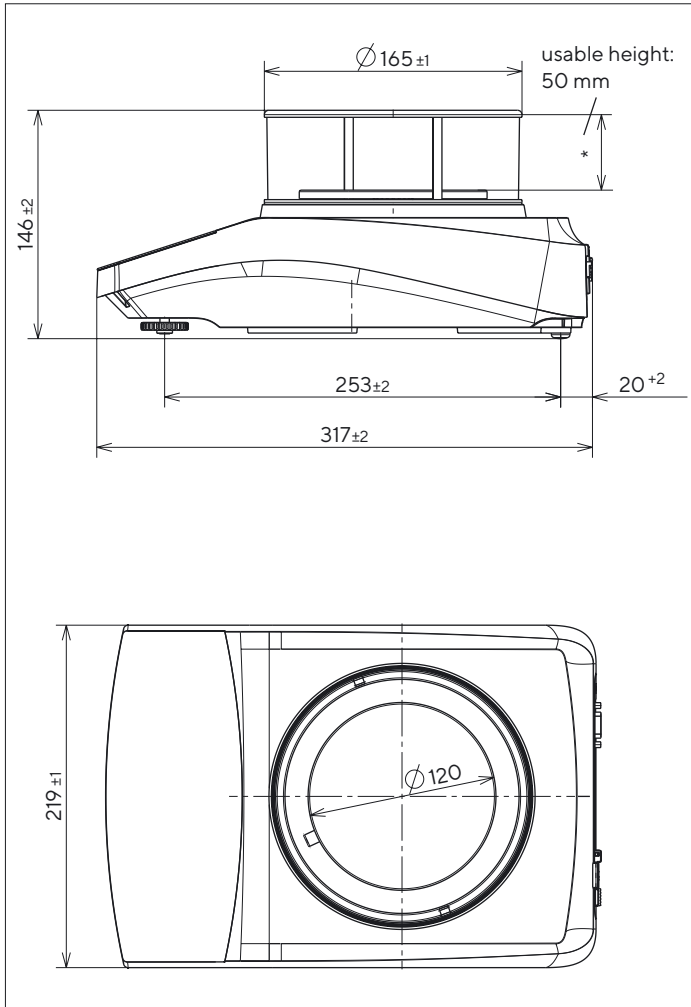
Models with a readability of 0.1 mg
All dimensions are given in millimeters



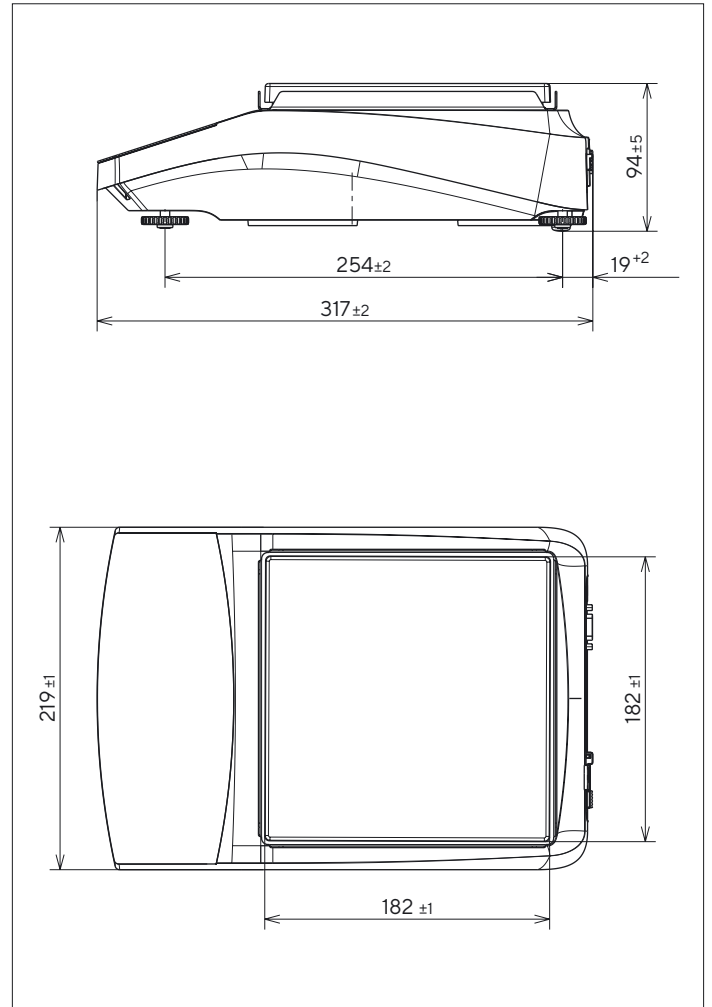
Models with a readability of 1 mg
All dimensions are given in millimeters



Models with a readability of 1 mg, with round glass shield
All dimensions are given in millimeters



Models with a readability of ≥ 10 mg
All dimensions are given in millimeters



Accessories

These tables contain an excerpt of the accessories that can be ordered. For information on other products, contact Sartorius.

Balance Accessories

| Item | Quantity | Order number |
|---|----------|--------------|
| Display protection film (set of 5) | 1 | YDC10 |
| Shield disk for balances with a readability of 0.1 mg | 1 | YSP02 |
| Dust cover for balances with an analytical draft shield | 1 | 6960BC01 |
| Density determination set for solids and liquids for balances with a readability of 0.1 mg 1 mg | 1 | YDK03 |
| "Kensington Lock" anti-theft device | 1 | YKL01 |
| Pedal button foot switch | 1 | YFS03 |
| Second display remote display | 1 | YSD01 |
| Below-balance weighing (not for models in legal metrology) | | |
| Hook M5 | 1 | 69EA0039 |
| Weighing table | | |
| Made from wood with natural stone | 1 | YWT09 |
| Made from natural stone, with vibration dampening | 1 | YWT03 |
| Wall console made from natural stone | 1 | YWT04 |

Printer and Accessories for Data Communication

| Item | Quantity | Order number |
|--|----------|----------------|
| Thermal printer (USB-B) | 1 | YDP40 |
| Thermal transfer printer (USB-B, RS232) | 1 | YDP30 |
| Dot matrix printer (RS232) | 1 | YDP20-0CE |
| Data cable USB-C > USB-B | 1.5 m | YCC-USB-C-B |
| Data cable USB-C > USB-A | 1.5 m | YCC-USB-C-A |
| Data cable RS232 (9-pin) > USB-A | 1.5 m | YCC-D09M-USB-A |
| Data cable RS232 (9-pin) male > RS232 (9-pin) male | 1.5 m | YCC-D09MM |
| Data cable RS232 (9-pin) male > RS232 (9-pin) female | 1.5 m | YCC-D09MF |
| Y-adapter RS232 (9-pin) male > 2x RS232 (9-pin) female | 1.5 m | YCC-D09M-2D09F |

External Calibration and Adjustment Weights

| BCE model | Weight | Accuracy class | Quantity | Order number |
|--------------------|---------|----------------|----------|--------------|
| 224 | 200 g | E2 | 1 | YCW522-AC-02 |
| 124 | 100 g | E2 | 1 | YCW512-AC-02 |
| 64 | 50 g | E2 | 1 | YCW452-AC-02 |
| 653 623 | 500 g | F1 | 1 | YCW553-AC-02 |
| 423 323 223 | 200 g | F1 | 1 | YCW523-AC-02 |
| 6202 | 5,000 g | F1 | 1 | YCW653-AC-02 |
| 4202 3202 2202 | 2,000 g | F1 | 1 | YCW623-AC-02 |
| 1202 | 1,000 g | F1 | 1 | YCW613-AC-02 |
| 822 622 | 500 g | F2 | 1 | YCW554-AC-02 |
| 8201 5201 | 5,000 g | F2 | 1 | YCW654-AC-02 |
| 2201 | 2,000 g | F2 | 1 | YCW624-AC-02 |
| 8200 6200 | 5,000 g | F2 | 1 | YCW654-AC-02 |

Sales and Service Contacts

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