



Entris[®] II

Laboratory Balances

Simplifying Progress

SARTORIUS



SARTORIUS

iso CAL

Max 220 g
d= 0.1mg

0.0000

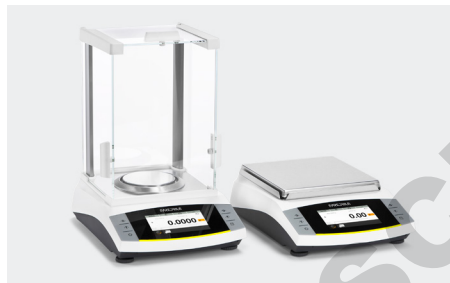
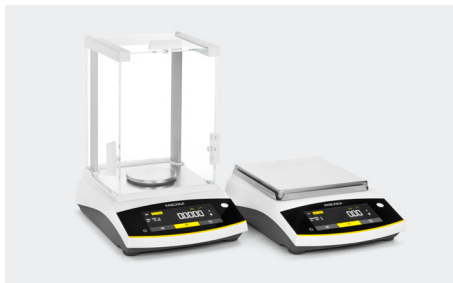
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Entris® II – Best Value in its Class for Basic Weighing Tasks

Every Sartorius balance offers quality, value, and consistency

No matter what you're weighing, the new Entris® II balance is always the right choice. Offering unrivalled value and backed by almost 150 years of German engineering expertise, the Entris® II comes in two product lines, so you can find the balance that meets your specific weighing needs.



Our Entris® II Essential line is the only balance in its class offering isoCAL, LED touch technology, and 12 built-in applications at a budget price. With over 40 models from which to choose, you will surely find a model to meet your basic weighing needs.

Our Entris® II Advanced line gives you additional value to the Entris® II portfolio, with over 38 models offering benefits such as real-time level support, integrated protection systems, CalAuditTrail, a graphic touch display and 13 built-in application programs.

Read on to learn why the Entris® II has the best value in its class for basic weighing tasks.





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DOMINI QUINQUET SCHER SAS

Quality, Value and Consistency

For accurate weighing results you can trust
time after time

Highest quality standards, engineered in Germany

- Highly accurate results year in and year out
 - guaranteed via monolithic weigh cell technology, invented by Sartorius*
- Fastest stabilization time in its class
 - using state-of-the-art weighing sensors
- Best repeatability
 - with rectangular weighing pan
- Overload protection
 - rugged design weighs up to a pre-set amount
- Guaranteed reliability
 - with the self-test “@start”
- Made in Germany

Easy clean for operational efficiency and durability

- High chemical resistance
 - ensured using parts made from hard-wearing polybutylene terephthalate (PBT), stainless steel and glass
- Prevents cross contamination
 - with wipe clean design and easy-to-remove parts

Effective draft shield

- Minimizes weighing errors caused by electrostatically charged samples
 - using specially coated glass parts

Added value for the Entris® II Advanced line:

Built-in real-time level support

- Simplifies balance leveling
 - with an internal electronic level sensor that continuously monitors for proper leveling, alarm messaging when it isn't leveled, and interactive user guidance

Integrated protection systems

- Increases reliability of weighing results
 - with 3 configurable levels to determine valid weighing data and ensure only valid data is transferred to external devices



* may differ for a few models

Innovations in this Weighing Class

For efficient, user-friendly operation



isoCAL (internal calibration and adjustment) for total assurance of accurate weighing results

- Optimal accuracy and operating convenience
 - using fully automated internal temperature and time-controlled calibration and adjustment feature, unique in this weighing class
- Assures (SOP) compliant operation
 - with self-notification if calibration is outside the normal range

Hybrid screen for excellent readability and use

- Combines intuitive, wear resistant LED and touch technology
 - provides an easy and clear structured user interface

Data output for dynamic weighing applications

- Configurable time interval for data output

Added value for the Entris® II

Advanced line:

Even easier usability with graphic touch display



Added value for the Entris® II

Advanced line: CalAuditTrail

Provides gapless documentation

- with automatic documentation of calibration and levelling processes, and date and time stamp

Plug-and-play convenience

- Automatically detects Sartorius accessories (e.g. printer, second display)
- Real "PC-direct feature" for easy connection to a PC to transfer weighing data directly into spreadsheets or documents such as Microsoft® Excel or Word

Easily adapts to your ambient conditions

- With just one click on the home screen



Universal Application

For future-proof assurance

The right model for each and every task

Finding the right model to suit any weighing application is simple. Our Entris® II Essential line offers a range of 40 models (the largest portfolio in its class), while our Entris® II Advanced line offers an additional 38 models. Depending on the model you choose, your weighing range can start as low as 60 g and go up to 12,200 g, with a readability from 0.1 mg to 1 g.

Added Value for the Entris® II Advanced line:
Expanded Weighing ranges

| Readability | Basic Essential Line – BCE | Basic Advanced Line – BCA |
|-------------|---|--|
| 0.1 mg | 60 g, 120 g, 220 g | 60 g, 120 g, 220 g, 320 g |
| 1 mg | 220 g, 320 g, 420 g, 620 g, 650 g | 220 g, 320 g, 420 g, 620 g, 1,200 g |
| 10 mg | 620 g, 820 g, 1,200 g, 2,200 g, 3,200 g, 4,200 g, 6,200 g | 820 g, 1,200 g, 2,200 g, 3,200 g, 4,200 g, 6,200 g |
| 0.1 g | 2,200 g, 5,200 g, 8,200 g | 2,200 g, 5,200 g, 8,200 g, 10,200 g, 12,200 g |
| 1.0 g | 6,200 g, 8,200 g | - |

Built-in applications with GLP | GMP compliant printout | data output

- Weighing | Dosing
- Counting
- Percentage weighing
- Mixing | Net Total
- Components | Totalizing
- Animal weighing
- Calculation | Free Factor
- Density determination
- Statistics
- Peak hold
- Check weighing
- Mass unit conversion
- Underfloor weighing feature for bigger samples

Added value for the Entris® II Advanced line:
Pipette smart test



Weighing chamber (where applicable)

- Highest usable weighing chamber height for easy handling of even large containers
- Convenient access to weighing pan
- Easy-to-(re)move top and side sliding doors
- Draft shield can be removed completely

Modern, up-to-date connectivity methods

- Future-proof USB Type C interface
- Industry-proof RS232 9-pin interface
- Backwards compatibility (by using RS232 port)

Added value for the Entris® II Advanced line:

- Enables multiple connection to external devices via a second USB Type C interface
- Enables transfer of data (such as weights, calibration reports) to USB Stick
- Allows customized printouts with up to 6 individual identifiers

8 built-in languages for international operation

- English, German, French, Italian, Spanish, Portuguese, Russian, Polish

Added value for the Entris® II

Advanced line: Chinese, Japanese, Korean, Turkish, Hungarian

Password protection for secure operation

- Protects the balance against unintentional changes

Added value for the Entris® II Advanced line:

Controlled access to balance settings with User Management



Entris® II – Technical Specifications

Analytical balances

| Model | Weighing capacity | Readability | Repeatability, typical | Stabilization time, typical | Weighing pan size | Weighing chamber height* | Dimensions (W × D × H) | Calibration and adjustment | |
|------------|-------------------|-------------|------------------------|-----------------------------|-------------------|--------------------------|------------------------|----------------------------|--------------------------|
| | | | | | | | | [g] | [mg] |
| BCA64i-1x | 60 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCA64-1x | 60 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCA124i-1x | 120 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCA124-1x | 120 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCA224i-1x | 220 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCA224-1x | 220 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCA324i-1x | 320 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCE64i-1x | 60 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCE64-1x | 60 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCE124i-1x | 120 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCE124-1x | 120 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCE224i-1x | 220 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCE224-1x | 220 | 0,1 | 0,1 | ≤1,5 | Ø 90 | 240 | 219×317×345 | | <input type="checkbox"/> |

Milligram balances

| Model | Weighing capacity | Readability | Repeatability, typical | Stabilization time, typical | Weighing pan size | Weighing chamber height* | Dimensions (W × D × H) | Calibration and adjustment | |
|-------------|-------------------|-------------|------------------------|-----------------------------|-------------------|--------------------------|------------------------|----------------------------|--------------------------|
| | | | | | | | | [g] | [mg] |
| BCA223i-1x | 220 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCA223-1x | 220 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCA323i-1x | 320 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCA323-1x | 320 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCA423i-1x | 420 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCA423-1x | 420 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCA623i-1x | 620 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCA623-1x | 620 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCA1203i-1x | 1.200 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCE223i-1x | 220 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCE223-1x | 220 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCE323i-1x | 320 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCE323-1x | 320 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCE423i-1x | 420 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCE423-1x | 420 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCE623i-1x | 620 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | isoCAL | <input type="checkbox"/> |
| BCE623-1x | 620 | 1 | 1 | ≤1,0 | Ø 120 | 240 | 219×317×345 | | <input type="checkbox"/> |
| BCE653i-1x | 650 | 1 | 1 | ≤1,0 | Ø 120 | 50 | 219×317×145 | isoCAL | <input type="checkbox"/> |
| BCE653-1x | 650 | 1 | 1 | ≤1,0 | Ø 120 | 50 | 219×317×145 | | <input type="checkbox"/> |

Precision balances

| Model | Weighing capacity | Readability | Repeatability, typical | Stabilization time, typical | Weighing pan size | Weighing chamber height* | Dimensions (W × D × H) | Calibration and adjustment | |
|--------------|-------------------|-------------|------------------------|-----------------------------|-------------------|--------------------------|------------------------|----------------------------|--------------------------|
| | [g] | [mg] | [mg] | [s] | [mm] | [mm] | [mm] | Internal | External |
| BCA822i-1x | 820 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCA822-1x | 820 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCA1202i-1x | 1.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCA1202-1x | 1.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCA2202i-1x | 2.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCA2202-1x | 2.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCA3202i-1x | 3.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCA3202-1x | 3.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCA4202i-1x | 4.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCA4202-1x | 4.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCA6202i-1x | 6.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCA6202-1x | 6.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCA2201i-1x | 2.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCA2201-1x | 2.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCA5201i-1x | 5.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCA5201-1x | 5.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCA8201i-1x | 8.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCA8201-1x | 8.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCA10201i-1x | 10.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCA10201-1x | 10.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCA12201i-1x | 12.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCA12201-1x | 12.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCE622i-1x | 620 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCE622-1x | 620 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCE822i-1x | 820 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCE822-1x | 820 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCE1202i-1x | 1.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCE1202-1x | 1.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCE2202i-1x | 2.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCE2202-1x | 2.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCE3202i-1x | 3.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCE3202-1x | 3.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCE4202i-1x | 4.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCE4202-1x | 4.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCE6202i-1x | 6.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCE6202-1x | 6.200 | 10 | 10 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCE2201i-1x | 2.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCE2201-1x | 2.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCE5201i-1x | 5.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCE5201-1x | 5.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCE8201i-1x | 8.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCE8201-1x | 8.200 | 100 | 100 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCE6200i-1x | 6.200 | 1,000 | 1,000 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCE6200-1x | 6.200 | 1,000 | 1,000 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |
| BCE8200i-1x | 8.200 | 1,000 | 1,000 | ≤0,9 | 182×182 | | 219×317×94 | isoCAL | <input type="checkbox"/> |
| BCE8200-1x | 8.200 | 1,000 | 1,000 | ≤0,9 | 182×182 | | 219×317×94 | | <input type="checkbox"/> |

* upper edge of the weighing pan to the lower edge of the upper draft shield panel
x = term for country-specific models

Contact Details:

Contact: