

No matter what you're weighing, the new Entris® II is always the right choice. Offering unrivalled value at a budget price, this is the only balance in its class featuring isoCAL, LED touch technology and 12 builtin 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. Sartorius Entris II BCE224-1S Analytical Balance 220 g x 0.1 mg


Capacity x Readability

220 g x 0.1 mg

Pan Size

90 mm (Diameter)

Manufacture: Sartorius

SKU: BCE224-1S

Weight: 8.00 lb

Free Ground Shipping within the 48 continental US States

Please Call
(800)832-0055

Features

Entris® II Laboratory Balances

Entris® II — Best Value in its Class for Basic Weighing Tasks. Every Sartorius balance offers quality, value and consistency

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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

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

- **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

- **Data output for dynamic weighing applications**

- Configurable time interval for data output

- Easily adapts to your ambient conditions
- With just one click on the home screen

Specifications

Models with External Calibration	BCE64-1S	BCE124-1S	BCE224-1S	BCE223-1S	BCE323-1S	BCE423-1S	BCE623-1S	BCE653-1S
Models with Internal Calibration	BCE64i-1S	BCE124i-1S	BCE224i-1S	BCE223i-1S	BCE323i-1S	BCE423i-1S	BCE623i-1S	BCE653i-1S
Capacity x Readability	60 g x 0.1 mg	120 g x 0.1 mg	220 g x 0.1 mg	220 g x 1 mg	320 g x 1 mg	420 g x 1 mg	620 g x 1 mg	650 g x 1 mg
Repeatability	At 5% load, typical value 0.08 mg	0.08 mg	0.08 mg	0.5 mg	0.5 mg	0.5 mg	0.5 mg	0.5 mg
	At approx. maximum load, typical value 0.1 mg	0.1 mg	0.1 mg	1 mg	1 mg	1 mg	1 mg	1 mg
Linearity deviation	Limits 0.2 mg	0.2 mg	0.2 mg	2 mg	2 mg	2 mg	2 mg	2 mg
	Typical value 0.06 mg	0.06 mg	0.06 mg	0.6 mg	0.6 mg	0.6 mg	0.6 mg	0.6 mg
Sensitivity drift between +10 °C and +30 °C	1.5 ± ppm/K	1.5 ± ppm/K	1.5 ± ppm/K	2 ± ppm/K	2 ± ppm/K	2 ± ppm/K	2 ± ppm/K	2 ± ppm/K
Tare maximum capacity (subtractive)								
Minimum initial weighing according to USP (United States Pharmacopeia), Chap. 41	Optimum minimum initial weighing 0.082 g	0.082 g	0.082 g	0.82 g	0.82 g	0.82 g	0.82 g	0.82 g
	Optimum minimum initial weighing 0.16 g	0.16 g	0.16 g	1 g	1 g	1 g	1 g	1 g
Typical measurement time	2.0 s	2.0 s	2.0 s	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s
Weighing pan size	90 mm dia			120 mm dia				
Weighing chamber height	240 mm							50 mm
Net weight, approx.	5.9 kg							4.5 kg
Shipping weight, approx.	7.70 kg							5.80 kg
Recommended calibration weight	External calibrated test weight 50 g	100 g	200 g	200 g	200 g	200 g	500 g	500 g
	Optimum minimum initial weighing E2	E2	E2	F1	F1	F1	F1	F1
Dimensions, D x W x H	317 x 219 x 345 mm							317 x 219 x 146 mm
Installation site	For indoor use only, max. height above sea level: 3000 m							
Temperature	Environment (metrological data): +10 - +30 °C Environment: +5 - +40 °C Storage and transport: -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 %							
Power Supply Device	Input voltage 15 VDC (±10 %) - Power consumption, max: 4 W Only by Sartorius power supply unit YEPS01-15V0W with interchangeable country-specific plug-in AC adaptors							
Weighing pan	Stainless steel							
Device Warm-up Time approx	2 h							
Interface RS232	Interface operation: Full duplex Connection: D-sub connector, 9-pin 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							
Interface USB-C	USB UTL Connectable devices: Sartorius printers, Sartorius second display or PC							

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

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