

## Sartorius BCE2201-1S

# Sartorius BCE2201-1S Entris II Essential Precision Balance User Manual

## 1. INTRODUCTION

This manual provides comprehensive instructions for the proper installation, operation, and maintenance of your Sartorius BCE2201-1S Entris II Essential Precision Balance. To ensure accurate and reliable performance, please read this manual thoroughly before using the device and keep it for future reference.

## 2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the balance:

- Operate the balance only in dry, indoor environments.
- Ensure the power supply matches the specifications indicated on the balance.
- Do not open the balance housing; refer servicing to qualified personnel.
- Avoid exposing the balance to extreme temperatures, humidity, or direct sunlight.
- Do not place objects heavier than the maximum capacity (2200g) on the weighing pan.
- Clean the balance with a soft, damp cloth and mild detergent. Avoid abrasive cleaners or solvents.

## 3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present and undamaged. The package should contain:

- Sartorius BCE2201-1S Entris II Essential Precision Balance
- Power Adapter
- Weighing Pan
- Draft Shield (if applicable to model configuration)
- User Manual (this document)

If any items are missing or damaged, contact your supplier immediately.

## 4. SETUP

## 4.1 Unpacking and Placement

Carefully remove the balance from its packaging. Place the balance on a stable, level surface free from vibrations, drafts, and rapid temperature changes. Ensure adequate space around the balance for operation and maintenance.

## 4.2 Assembly

Place the weighing pan onto the pan support. If your model includes a draft shield, assemble it according to the diagrams provided in the separate assembly guide or on the packaging.



**Figure 1:** The Sartorius BCE2201-1S Entris II Essential Precision Balance, shown with its protective draft shield and weighing pan installed. This image illustrates the typical setup of the balance ready for use.

## 4.3 Power Connection

Connect the power adapter to the balance and then plug it into a suitable electrical outlet. Allow the balance to warm up for at least 30 minutes before initial use to ensure optimal stability.

## 4.4 Initial Calibration (isoCAL)

The Entris II features an internal automatic calibration function (isoCAL). Upon initial power-up or after

relocation, it is recommended to perform an isoCAL. Refer to the operating instructions section for details on initiating this process via the touch display.

## 5. OPERATING INSTRUCTIONS

### 5.1 Powering On/Off

- To power on: Press the **On/Off** button (typically marked with a circle and vertical line symbol).
- To power off: Press and hold the **On/Off** button until the display turns off.

### 5.2 Basic Weighing Procedure

1. Ensure the weighing pan is empty and clean.
2. Press the **Zero** button to set the display to 0.0g.
3. Place the item to be weighed gently onto the center of the weighing pan.
4. Wait for the stability indicator (usually a small circle or arrow) to appear, indicating a stable reading.
5. Read the weight displayed on the LED touch screen.

### 5.3 Taring

Taring allows you to subtract the weight of a container, so only the net weight of the sample is displayed.

1. Place the empty container on the weighing pan.
2. Press the **Tare** button (often marked with a 'T' or '->0<-' symbol). The display will show 0.0g.
3. Add the sample to the container. The display will show the net weight of the sample.



**Figure 2:** A detailed view of the Sartorius Entris II Essential Precision Balance's LED touch display, showing the current weight reading, stability indicator, and various function icons including isoCAL and Tare. This image highlights the user interface for daily operation.

### 5.4 Unit Selection

The Entris II balance supports various weighing units. To change the unit, navigate through the menu options

on the LED touch display. Consult the on-screen prompts or the full digital manual for specific steps to access unit settings.

## 5.5 Built-in Applications

The Entris II features 12 built-in applications to assist with various weighing tasks. These applications can be accessed via the touch display menu. Examples include counting, percentage weighing, and density determination. Refer to the balance's on-screen help or the comprehensive digital manual for detailed instructions on using each application.

## 6. MAINTENANCE

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### 6.1 Cleaning

Regular cleaning ensures the longevity and accuracy of your balance.

- Disconnect the balance from the power supply before cleaning.
- Use a soft, lint-free cloth dampened with a mild detergent solution (e.g., soap and water) to clean the exterior surfaces.
- The weighing pan can be removed and cleaned separately with warm water and detergent. Ensure it is completely dry before re-installing.
- Do not allow liquids to enter the balance housing.

### 6.2 Calibration

The isoCAL function provides internal automatic calibration. It is recommended to perform this regularly, especially if the ambient temperature changes significantly or if high accuracy is critical for your application. Access isoCAL via the balance's menu.

## 7. TROUBLESHOOTING

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If you encounter issues with your balance, refer to the following common problems and solutions:

- **Unstable Readings:**
  - Check for drafts, vibrations, or temperature fluctuations.
  - Ensure the balance is level and on a stable surface.
  - Perform an isoCAL.
- **Display Shows Error Message:**
  - Consult the balance's on-screen help or the comprehensive digital manual for specific error code meanings.
  - Try powering the balance off and on again.
- **Balance Does Not Power On:**
  - Verify the power adapter is securely connected to both the balance and the electrical outlet.
  - Check the power outlet with another device.

If the problem persists after attempting these solutions, contact Sartorius customer support or your authorized dealer.



## 8. SPECIFICATIONS

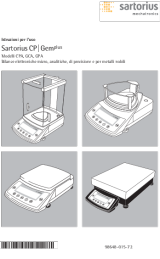

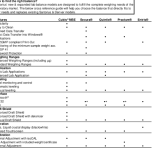

Feature	Specification
Model	BCE2201-1S
Brand	Sartorius
Product Type	Precision Balance
Capacity	2200 g
Readability (d)	0.1 g
Display Type	LED Touchscreen
Special Features	Auto Calibration (isoCAL), 12 Built-in Applications
Country of Origin	Germany
Package Dimensions	17.5 x 13.8 x 9.8 inches
Item Package Weight	12.0 lbs

## 9. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Sartorius website or contact your local authorized Sartorius dealer. Keep your purchase receipt and product serial number readily available when seeking support.

### Related Documents - BCE2201-1S

	<p><a href="#">Sartorius CP   Gemplus Series Electronic Balances - Operating Instructions</a></p> <p>Comprehensive operating instructions for Sartorius CP   Gemplus Series electronic micro-, analytical, and precision balances, including CPA, GCA, and GPA models. Covers installation, operation, configuration, application programs, troubleshooting, maintenance, and specifications.</p>
	<p><a href="#">Sartorius Portable and Gold Series Service Manual: Maintenance and Repair Guide</a></p> <p>Comprehensive service manual for Sartorius Portable and Gold series weighing scales (PT...-000V1 and GT...-G00V1). Covers adjustment, calibration, repair procedures, troubleshooting, and data interface information for service technicians.</p>

	<p><a href="#">Manuale d'uso Sartorius CP Gemplus: Istruzioni per Balance Analitiche e di Precisione</a></p> <p>Guida completa alle istruzioni per l'uso delle bilance elettroniche Sartorius CP e Gemplus (modelli CPA, GCA, GPA). Copre installazione, funzionamento, impostazioni, manutenzione e specifiche tecniche.</p>
	<p><a href="#">Sartorius Secura, Quintix, Practum Laboratory Balances User Manual</a></p> <p>Comprehensive user manual for Sartorius Secura, Quintix, and Practum laboratory balances. Details installation, operation, safety guidelines, various weighing applications, system settings, and technical specifications for precise laboratory measurements.</p>
	<p><a href="#">Sartorius Lab Balance Cross-Reference Guide: Find Your Perfect Model</a></p> <p>Compare Sartorius lab balance models across Cubis MSE, Secura, Quintix, Practum, and Entris series. Find replacement models and FS catalog numbers for your laboratory weighing needs.</p>
	<p><a href="#">Sartorius PR 5230 Transmitter in Field Housing - Instrument Manual</a></p> <p>Comprehensive instrument manual for the Sartorius PR 5230 Transmitter in Field Housing. Covers installation, operation, calibration, safety, and technical specifications for industrial weighing applications.</p>

Documents - Sartorius – BCE2201-1S

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