

Sartorius MCA3.6P-2S00-M

Sartorius Cubis II Micro Poly Range Balance User Manual

Model: MCA3.6P-2S00-M

1. INTRODUCTION

The Sartorius Cubis II MCA Ultra-Micro and Micro balances are advanced laboratory instruments designed for precise weighing applications. This balance series offers extensive customization options to meet diverse application and compliance requirements, ensuring highly reliable measurement results. Key features include automatic motorized leveling, a motion-controlled and illuminated draft shield, and an integrated climate sensor for environmental monitoring, all contributing to error-free operation. The intuitive 7-inch color touch-screen display provides a user-friendly interface for navigating factory-installed weighing applications and monitoring balance status.

2. SETUP AND INSTALLATION

Proper setup is crucial for optimal performance of your Sartorius Cubis II balance.

2.1 Unpacking and Placement

- Carefully unpack all components from the packaging. Retain packaging materials for future transport or storage.
- Place the balance on a stable, level, and vibration-free surface, away from direct sunlight, drafts, and heat sources.
- Ensure sufficient space around the balance for operation and maintenance.

2.2 Connecting to Power

- Connect the power adapter to the balance and then to a suitable power outlet.
- The balance features automatic motorized leveling, which will initiate upon power-up to ensure precise calibration.



Figure 1: Sartorius Cubis II Micro Poly Range Balance. This image displays the Sartorius Cubis II Micro Poly Range Balance, featuring a compact weighing unit with an integrated glass draft shield and a separate, large color touch-screen display unit. The design allows for flexible placement and clear visibility of weighing results and operational settings.

3. OPERATING INSTRUCTIONS

The Cubis II balance is designed for intuitive operation through its advanced user interface.

3.1 User Interface Navigation

- The large 7-inch color touch-screen display allows for touch, scroll, and swipe gestures, similar to a smartphone.
- Access various factory-installed weighing applications directly from the main screen.
- The "Status Center" provides real-time information about the balance's operational status, environmental conditions, and offers detailed help and support for warnings or errors.

3.2 Weighing Procedures

- Ensure the balance is level and stable before starting any measurement. The motorized auto-leveling system helps

maintain this.

- Utilize the motion sensor motorized draft shield, which opens automatically, to protect samples from air currents and ensure stable readings.
- Place the sample carefully on the weighing pan. Wait for the reading to stabilize.
- The integrated climate sensor continuously monitors environmental factors that could affect weighing accuracy, ensuring error-free operation.

3.3 Data Management and Compliance

- The balance supports safe data transfer, allowing for secure integration into laboratory information systems.
- Electronic signature functionality is available, ensuring compliance with regulations such as 21 CFR Part 11, providing complete data integrity.

4. MAINTENANCE AND CARE

Regular maintenance ensures the longevity and accuracy of your Sartorius Cubis II balance.

- **Cleaning:** Gently clean the balance and display unit with a soft, damp cloth. Use mild, non-abrasive cleaning agents. Avoid direct spraying of liquids onto the balance.
- **Draft Shield:** The glass draft shield can be carefully removed for cleaning if necessary. Refer to the on-screen instructions for proper removal and reinstallation.
- **Calibration:** While the balance features automatic leveling, periodic calibration checks with certified weights are recommended to maintain accuracy.
- **Environmental Conditions:** Keep the balance in a clean, dry environment within the specified operating temperature and humidity ranges.

5. TROUBLESHOOTING

This section provides guidance for common issues. For more detailed troubleshooting, refer to the "Status Center" on the balance's display or contact technical support.

Problem	Possible Cause	Solution
Balance not powering on	Power cable disconnected; power outlet issue.	Check power cable connection; try a different outlet.
Unstable readings	Vibrations; drafts; temperature fluctuations.	Ensure stable surface; close draft shield; allow balance to acclimatize.
Error message on display	Internal fault; environmental issue.	Consult the "Status Center" for specific error codes and recommended actions.

6. SPECIFICATIONS

Key technical specifications for the Sartorius Cubis II MCA3.6P-2S00-M balance:

- **Model:** MCA3.6P-2S00-M
- **Capacity Range:** 1.1 g, 2.1 g, 3.1 g (depending on range selected)
- **Scale Interval (Readability):** 0.001 mg, 0.002 mg, 0.005 mg (depending on range selected)

- **Maximum Capacity:** Up to 10.1 g (overall range for Cubis II MCA series)
- **Minimum Scale Interval:** 0.1 µg (overall range for Cubis II MCA series)
- **Draft Shield:** Auto Glass Draft Shield, motion-controlled and illuminated
- **Display:** Large 7-inch Color TFT Touch Screen with swipe functionality
- **Leveling:** Automatic Motorized Leveling
- **Environmental Monitoring:** Integrated Climate Sensor
- **Connectivity:** Customizable for various data transfer needs
- **Compliance:** Electronic signature in compliance with 21 CFR Part 11
- **Package Dimensions:** Approximately 30 x 24 x 20 inches
- **Weight Limit (Product):** Approximately 10.1 Pounds
- **Material (Draft Shield):** Glass

7. WARRANTY AND SUPPORT

Sartorius stands behind the quality of its products.

- **Warranty:** The Sartorius Cubis II MCA balance comes with a 10-year warranty, ensuring long-term flexibility and reliability.
- **Technical Support:** For technical assistance, service, or spare parts, please contact your authorized Sartorius distributor or visit the official Sartorius website for support resources.
- **Online Resources:** Additional documentation, software updates, and FAQs may be available on the Sartorius support portal.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question