

2000g x 0.01g

Generic Lab Scale Digital Analytical Balance User Manual

Model: 2000g x 0.01g Precision

1. INTRODUCTION

This manual provides instructions for the proper use and maintenance of your Generic Lab Scale Digital Analytical Balance, Model 2000g x 0.01g. This high-precision electronic analytical balance is designed for laboratory-grade accuracy, offering a 0.01g resolution and a maximum capacity of 2000g. It is suitable for research facilities, laboratories, and other scientific applications requiring exact measurements. Please read this manual thoroughly before operating the device.

2. SAFETY INFORMATION

- Place the balance on a stable, level surface free from vibrations and drafts.
- Avoid exposing the balance to extreme temperatures, humidity, or direct sunlight.
- Do not overload the balance beyond its maximum capacity of 2000g.
- Use only the provided AC adapter for power.
- Keep the balance clean and free from dust and corrosive substances.
- Do not attempt to disassemble or repair the balance yourself. Contact qualified personnel for service.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Digital Analytical Balance (2000g x 0.01g)
- Stainless Steel Weighing Pan
- AC Power Adapter
- User Manual (this document)
- Calibration Weight (if included with your model)

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your analytical balance.



Image 4.1: Front view of the Digital Analytical Balance without a weighing object.

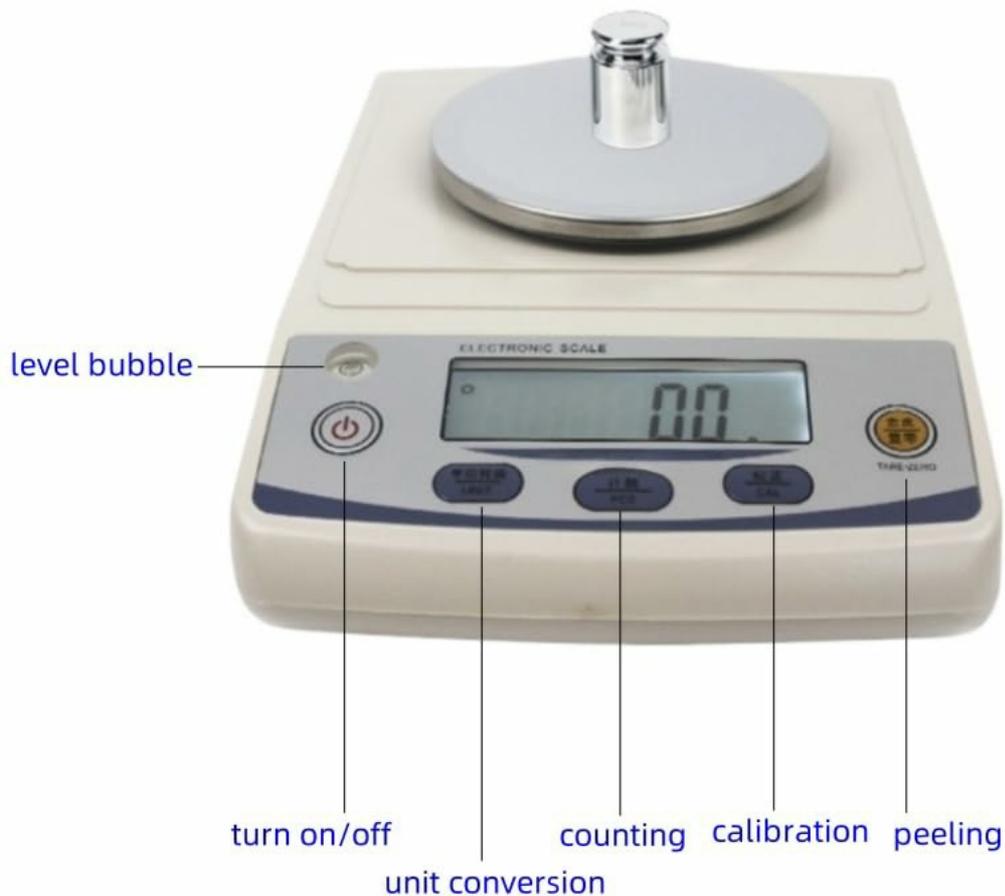


Image 4.2: Close-up view of the control panel with labeled buttons and level bubble.

Key Components:

- **Weighing Pan:** Stainless steel platform for placing items to be weighed.
- **LCD Display:** Shows weight readings, units, and other indicators.
- **Power Button:** Turns the balance ON/OFF.
- **UNIT Button:** Changes weighing units (e.g., grams, ounces).
- **PCS Button:** Activates the counting function.
- **CAL Button:** Initiates the calibration process.
- **TARE/ZERO Button:** Zeros the display or tares the weight of a container.
- **Level Bubble:** Indicates if the balance is perfectly level.

5. SETUP

1. **Unpacking:** Carefully remove all components from the packaging.
2. **Placement:** Place the balance on a firm, level, and vibration-free surface. Use the adjustable feet at the bottom of the balance to ensure the level bubble is centered.
3. **Weighing Pan Installation:** Gently place the stainless steel weighing pan onto the center of the balance platform.
4. **Power Connection:** Connect the AC power adapter to the balance's power input port and then plug it into a suitable electrical outlet.
5. **Initial Power On:** Press the **Power** button to turn on the balance. Allow a few minutes for the balance to warm up and stabilize before use.

6. OPERATING INSTRUCTIONS

6.1. Basic Weighing

1. Ensure the balance is on a level surface and powered on.
2. Wait for the display to show "0.00g" or the selected unit.
3. Gently place the item to be weighed onto the center of the weighing pan.
4. Read the stable weight displayed on the LCD screen.
5. Remove the item from the pan.

6.2. Tare Function

The tare function allows you to weigh items in a container by subtracting the container's weight.

1. Place the empty container on the weighing pan.
2. Press the **TARE/ZERO** button. The display will reset to "0.00g".
3. Place the items to be weighed into the container. The display will show the net weight of the items.
4. Remove both the container and items. The display may show a negative value; press **TARE/ZERO** again to return to zero.

6.3. Unit Conversion

To change the weighing unit:

- Press the **UNIT** button repeatedly to cycle through available units (e.g., g, oz, ct, dwt).
- The selected unit will be indicated on the LCD display.

6.4. Calibration

Regular calibration ensures accuracy. Use a known calibration weight (e.g., 2000g) for this process.

1. Ensure the balance is powered on and the weighing pan is empty.
2. Press and hold the **CAL** button until "CAL" appears on the display, then release.
3. The display will show the required calibration weight (e.g., "2000g").
4. Carefully place the specified calibration weight onto the center of the weighing pan.

5. Wait for the display to show "PASS" or return to normal weighing mode with the correct weight displayed.
6. Remove the calibration weight. The balance is now calibrated.

6.5. Counting Function (PCS)

This function allows you to count a large number of small, identical items.

1. Place a sample quantity of items (e.g., 10, 20, 50, or 100 pieces) on the weighing pan.
2. Press and hold the **PCS** button until the display shows a number corresponding to the sample size (e.g., "10 PCS").
3. Press the **UNIT** button to select the sample size that matches the number of items you placed on the pan.
4. Press **PCS** again to confirm. The display will now show the count of the sample.
5. Add more items to the pan, and the display will show the total count.

7. MAINTENANCE

- **Cleaning:** Wipe the balance with a soft, damp cloth. Do not use abrasive cleaners, solvents, or immerse the balance in water.
- **Storage:** When not in use for extended periods, store the balance in a dry, dust-free environment.
- **Calibration:** Calibrate the balance regularly, especially after moving it or if you suspect accuracy issues.
- **Inspection:** Periodically check the power cord for damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Balance does not turn on	No power, faulty adapter, loose connection	Check power outlet, ensure adapter is securely connected, try a different outlet.
Inaccurate readings	Not level, drafts, vibrations, needs calibration, overloaded	Ensure balance is level, move to a stable location, recalibrate, do not exceed max capacity.
Display shows "EEEE" or "OUE2"	Overload error	Remove excess weight from the pan.
Display shows "UNST"	Unstable reading due to vibrations or air currents	Move balance to a more stable environment, close windows/doors to reduce drafts.

9. SPECIFICATIONS

Capacity	2000g
Readability / Division Value	0.01g
Linearity Error	±0.03g
Display Type	LCD
Weighing Pan Material	Stainless Steel
Body Material	Durable ABS
Power Source	AC Adapter (included)
Special Features	Auto Shutdown, Advanced Sensor Technology, Multiple Weighing Modes
Item Weight	Approx. 3 kg / 6.6 pounds
Dimensions (Package)	12.6 x 10.24 x 6.69 inches

10. WARRANTY INFORMATION

This product is covered by a standard manufacturer's warranty against defects in materials and workmanship. The warranty period typically begins from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accident, unauthorized modification, or improper operation. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact customer support.

11. SUPPORT

If you encounter any issues or have questions not covered in this manual, please contact your retailer or the manufacturer's customer support. When contacting support, please have your product model (2000g x 0.01g) and purchase information readily available.

For further assistance, please visit the product page on Amazon: [Amazon Product Page](#)