Bonvoisin 2000g 0.01g

Bonvoisin Precision Laboratory Balance 2000g 0.01g User Manual

Model: 2000g 0.01g | Brand: Bonvoisin

1. Introduction

This manual provides detailed instructions for the safe and efficient operation of your Bonvoisin Precision Laboratory Balance, model 2000g 0.01g. This electronic balance is designed for precise weighing in various environments, including laboratories, schools, kitchens, and pharmacies. It features a high-precision sensor, multiple functions, and a durable stainless steel weighing pan. Please read this manual thoroughly before use to ensure proper functionality and longevity of the device.

2. Product Overview

2.1 Components



Figure 2.1: All Accessories. The image displays the Bonvoisin Precision Laboratory Balance, an ABS wind shield, an ABS shell, a charger cable, a calibration weight, and a stainless steel weighing pan.

- **Main Unit:** The electronic balance with an integrated LCD display and control panel.
- **ABS Wind Shield:** A transparent enclosure to protect the weighing process from external influences like wind.
- **ABS Shell:** The main housing of the balance.
- **Stainless Steel Weighing Pan:** A durable, round platform for placing items to be weighed.
- **Charger Cable:** For external power supply.
- **Calibration Weight:** Used for accurate calibration of the balance.

2.2 Key Features

- **Multiple Functions:** Includes Tare, Automatic Correction, Memory, Counting, and Fault Display.
- **High Precision:** Weighing range from 5g to 2000g with 0.01g accuracy, ensured by an updated central sensor.
- **Wind Shield:** Minimizes external interference for more accurate weighing results.
- **Unit Conversion:** Supports conversion between g, kg, lb, ct, oz, ozt, dwt.

- **Large LCD Display:** Provides clear and precise readings, even in low-light conditions.
- **Anti-slip Mat Design:** Enhances stability in various weighing environments.
- **Durable Construction:** Features a robust stainless steel weighing pan.

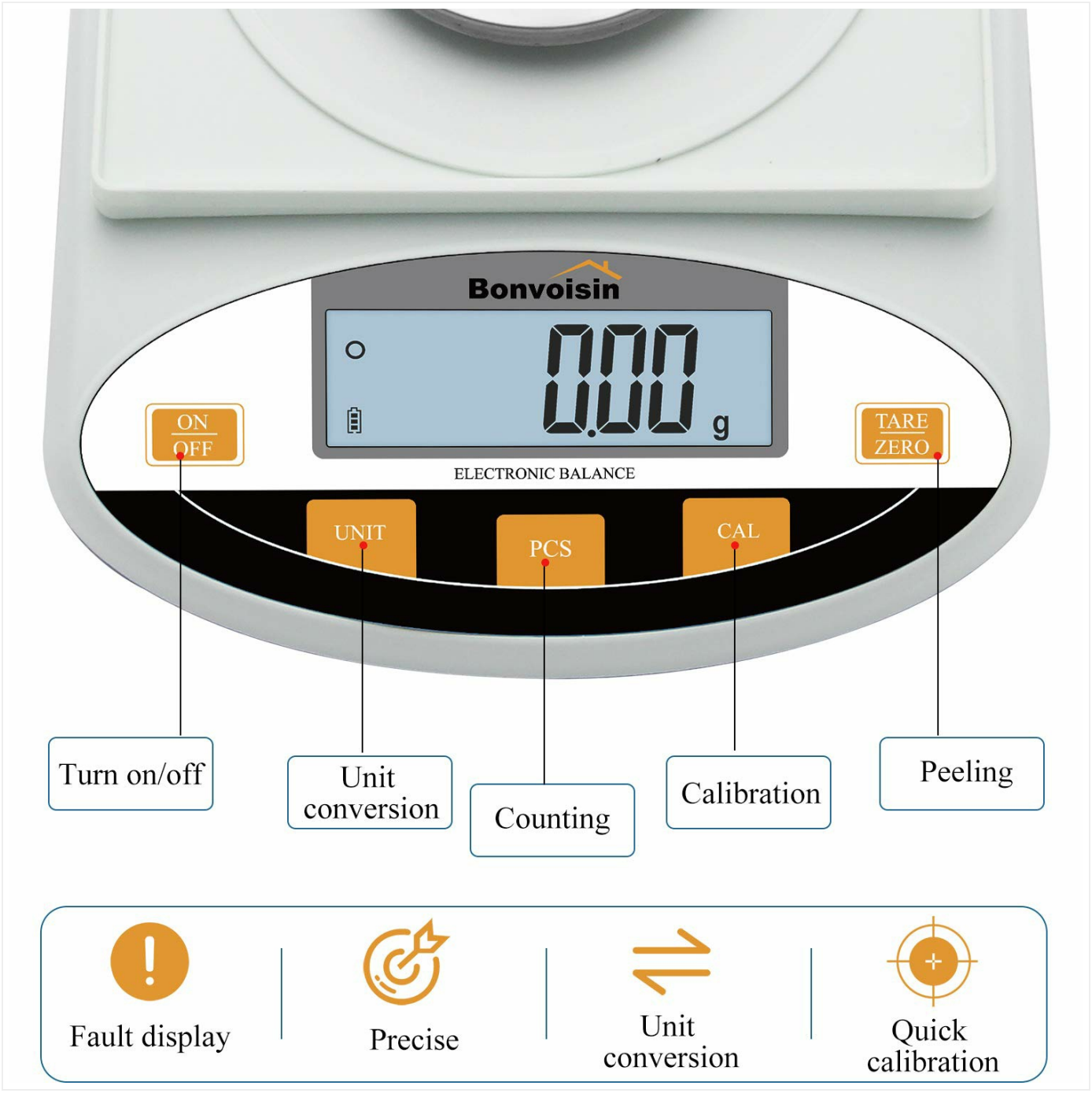


Figure 2.2: Control Panel Functions. The image highlights the buttons and their corresponding functions: Turn on/off, Unit conversion, Counting, Calibration, and Peeling (Tare).

3. Setup

3.1 Unpacking and Inspection

1. Carefully remove all components from the packaging.
2. Inspect the balance and accessories for any signs of damage. Contact your supplier immediately if any damage is found.
3. Ensure all components listed in Section 2.1 are present.

3.2 Placement

- Place the balance on a stable, level surface free from vibrations.
- Avoid locations with direct sunlight, drafts, or rapid temperature changes.
- Ensure sufficient space around the balance for operation and maintenance.

3.3 Assembly

1. Place the stainless steel weighing pan onto the center of the balance platform.
2. Carefully place the ABS wind shield over the weighing pan, ensuring it sits securely on the balance base.

3.4 Power Supply



Figure 3.1: Two Modes of Power Supply. The image illustrates the battery compartment for a DC9V battery (not included) and the port for the external power supply.

- **AC Power:** Connect the provided charger cable to the balance's power input and plug it into a suitable power outlet.
- **Battery Power:** For portable use, insert a DC9V battery (not included) into the battery compartment located on the

underside of the balance. Ensure correct polarity.

3.5 Leveling the Balance

The balance is equipped with a spirit level and adjustable feet. Before operation, ensure the balance is perfectly level.

1. Locate the spirit level bubble on the balance.
2. Adjust the four adjustable feet on the underside of the balance until the bubble is centered within the circle of the spirit level.
3. Once leveled, try to keep the balance in the same position to maintain accuracy.

4. Operation

4.1 Power On/Off

- Press the **ON/OFF** button to turn the balance on.
- Press and hold the **ON/OFF** button to turn the balance off.

4.2 Basic Weighing

1. Ensure the balance is level and powered on.
2. Wait for the display to show "0.00g" (or the current unit).
3. Carefully place the item to be weighed onto the center of the stainless steel weighing pan.
4. Read the stable weight displayed on the LCD screen.

4.3 Tare Function (Peeling)

The Tare function allows you to subtract the weight of a container, so only the net weight of the contents is measured.

1. Place an empty container on the weighing pan.
2. Press the **TARE/ZERO** button. The display will reset to "0.00g".
3. Add the substance to be weighed into the container. The display will show the net weight of the substance.
4. To clear the tare, remove the container and press **TARE/ZERO** again.

4.4 Unit Conversion

The balance supports multiple weighing units.

- Press the **UNIT** button to cycle through available units: g, kg, lb, ct, oz, ozt, dwt.
- The selected unit will be displayed on the LCD screen.

4.5 Counting Function (PCS)

This function allows you to count items of uniform weight.

1. Place a sample quantity of items (e.g., 10, 20, 50, or 100 pieces) on the weighing pan.
2. Press the **PCS** button. The display will show "PCS" and a number (e.g., "PCS 25").
3. Use the **UNIT** button to select the sample quantity you placed (e.g., if you placed 20 items, cycle until "PCS 20" is displayed).
4. Press **PCS** again to confirm the sample quantity. The balance will now be in counting mode.
5. Add more items to the pan, and the display will show the total count.
6. To exit counting mode, press the **PCS** button again.

5. Calibration

Regular calibration ensures the accuracy of your balance. It is recommended to calibrate the balance upon initial setup and periodically thereafter, or if the balance is moved.



Figure 5.1: Calibration Steps. This image illustrates the calibration process, using a 1000g weight as an example.

1. Ensure the balance is on a stable surface and powered on, with nothing on the weighing pan.
2. Press and hold the **CAL** button until "CAL" appears on the display, then release.
3. The display will then show the required calibration weight (e.g., "1000.00g" for a 1000g calibration).
4. Carefully place the specified calibration weight (e.g., 1000g) onto the center of the weighing pan.
5. Wait for the display to stabilize and show "PASS" or return to normal weighing mode (e.g., "0.00g").
6. Remove the calibration weight. The balance is now calibrated.

Note: Use the correct calibration weight for your specific balance model (e.g., 2000g for a 2000g capacity balance).

6. Maintenance

6.1 Cleaning

- Always turn off and unplug the balance before cleaning.
- Wipe the balance surfaces with a soft, damp cloth. Use a mild detergent if necessary.
- Do not use abrasive cleaners, solvents, or immerse the balance in water.
- Ensure no liquids enter the internal components.
- Clean the weighing pan regularly, especially after spills.

6.2 Storage

- Store the balance in a clean, dry, and stable environment.

- Avoid extreme temperatures and humidity.
- Keep the wind shield in place to protect the weighing pan from dust and debris.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Display shows "Err" or unstable readings.	Overload, unstable surface, strong drafts, electromagnetic interference.	• Remove excess weight if overloaded. • Ensure the balance is on a stable, level surface. • Use the wind shield and avoid drafts. • Move away from strong electromagnetic fields.
Balance does not turn on.	No power, low battery, faulty power adapter.	• Check power cable connection. • Replace batteries if using battery power. • Try a different power outlet.
Inaccurate readings.	Not calibrated, not level, temperature changes, dirty pan.	• Perform calibration (refer to Section 5). • Level the balance (refer to Section 3.5). • Ensure stable ambient temperature. • Clean the weighing pan.

If the problem persists after attempting these solutions, please contact customer support.

8. Specifications

Feature	Detail
Brand	Bonvoisin
Model	2000g 0.01g
Maximum Weight Capacity	2000 Grams
Accuracy	0.01 Grams
Display Type	LCD
Special Feature	Large Display
Material Type	Stainless Steel (weighing pan)

Feature	Detail
Power Supply	AC Adapter (included), DC9V Battery (not included)
Unit Conversion	g, kg, lb, ct, oz, ozt, dwt
ASIN	B08534GYSR
GTIN/UPC	795787256510



Figure 8.1: Product Dimensions. The image shows the approximate dimensions of the balance: 20cm (7.88in) width and 26cm (10.24in) depth.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the documentation included with your purchase or contact Bonvoisin customer service directly.

You can often find contact details on the manufacturer's official website or through the retailer where the product was purchased.

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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.

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