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> VEVOR Analytical Balance 3000g x 0.01g User Manual

VEVOR 3000gBalance

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Model: 3000gBalance

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your VEVOR Analytical Balance.

Designed for high-precision weighing, this electronic balance offers a capacity of 3000g with 0.01g readability, suitable for various applications including laboratories, universities, and jewelry measurement.

Please read this manual thoroughly before using the device to ensure correct operation and to prevent damage.

2. SAFETY INSTRUCTIONS

- 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 3000g.
- Keep the weighing pan clean and free from dust or debris.
- Use only the specified power adapter.
- Do not attempt to disassemble or repair the balance yourself. Contact qualified personnel for service.

3. PACKAGE CONTENTS

Verify that all components are present upon unpacking:

- VEVOR Analytical Balance
- Stainless Steel Weighing Pan
- Power Adapter
- Calibration Weight (if included with model)
- User Manual (this document)

4. PRODUCT OVERVIEW

The VEVOR Analytical Balance features a robust design for accurate measurements. Key components include:

- **Weighing Pan:** Stainless steel platform for placing items to be weighed.
- **LCD Display:** Backlit screen showing weight, units, and function indicators.
- **Control Panel:** Buttons for various functions (ON/OFF, UNIT, PCS, CAL, TARE/ZERO).
- **Adjustable Feet:** For leveling the balance.
- **Level Bubble:** Indicator to ensure the balance is perfectly level.



Figure 4.1: Front view of the VEVOR Analytical Balance, showing the display, control buttons, and weighing pan.

0.01G ACCURATE WEIGHING

Accurate measurement with high-sensitivity sensor



0.01g
resolution



High-Sensitivity
Sensor



6.6 lbs / 3000g
Capacity



Overload
Warning



Figure 4.2: Detailed view of the balance display and control panel, highlighting the 0.01g accuracy.

5. SETUP

5.1 Placement

Choose a location that is stable, flat, and free from vibrations, drafts, and direct heat sources. Ensure adequate space around the balance for operation and ventilation.

5.2 Leveling the Balance

1. Place the balance on your chosen surface.
2. Locate the level bubble, usually found near the front or side of the balance.
3. Adjust the four adjustable feet by turning them clockwise or counter-clockwise until the air bubble is centered within the red circle of the level indicator.



Figure 5.1: Illustration of adjustable feet and the level bubble for ensuring stable and accurate measurements.

5.3 Power Connection

Connect the provided power adapter to the balance and then to a suitable power outlet. The balance can also be powered by mobile power sources (e.g., power bank) via a USB connection, if applicable to your model.



Figure 5.2: Powering options for the analytical balance, including AC adapter and mobile power.

6. OPERATING INSTRUCTIONS

6.1 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.

6.2 Unit Conversion

The balance supports 13 unit conversions. To change the weighing unit:

- Press the **UNIT** button repeatedly to cycle through available units: g, ct, oz, ozt, N, lb, dr, GN, dwt, %, tIT, T, TAR.
- The selected unit will be displayed on the LCD screen.

6.3 Tare/Zero Function

The Tare/Zero function allows you to subtract the weight of a container or to reset the display to zero before adding an item.

1. Place an empty container on the weighing pan.
2. Wait for the reading to stabilize.

3. Press the **TARE/ZERO** button. The display will show "0.00g" (or the current unit), and the tare indicator may appear.
4. You can now add items to the container, and only their net weight will be displayed.

6.4 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 sample size (e.g., "P-25").
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. Remove the sample and place the bulk quantity of items you wish to count. The display will show the total count.

6.5 Calibration (CAL)

Regular calibration ensures the accuracy of your balance. It is recommended to calibrate the balance periodically or if you suspect inaccurate readings.

1. Ensure the balance is on a stable surface and level.
2. With nothing on the weighing pan, press and hold the **CAL** button until "CAL" appears on the display.
3. The display will then show the required calibration weight (e.g., "3000g").
4. Carefully place the specified calibration weight (e.g., 3000g) 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.



Figure 6.1: The calibration process, indicating where to place the calibration weight.

6.6 General Weighing Procedure

1. Turn on the balance and ensure it displays "0.00g" (or your desired unit). If not, press **TARE/ZERO**.
2. Carefully place the item(s) to be weighed onto the center of the stainless steel weighing pan.
3. Wait for the reading on the LCD display to stabilize.
4. Read the weight displayed.
5. Remove the item(s) from the pan.

LAB ELECTRONIC ANALYTICAL BALANCE

Quick and accurate weighting tool for lab



Figure 6.2: The analytical balance ready for use in a laboratory environment.

7. MAINTENANCE

7.1 Cleaning

- Disconnect the power before cleaning.
- Wipe the balance exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- The stainless steel weighing pan can be removed and cleaned separately with mild soap and water, then dried thoroughly.
- Ensure no liquid enters the internal components of the balance.

7.2 Storage

When not in use for extended periods, store the balance in a clean, dry, and stable environment, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display shows "OL" or "EEEE"	Overload	Remove excess weight from the pan. Do not exceed 3000g capacity.
Inaccurate readings	Balance not level Needs calibration Drafts or vibrations Dirty weighing pan	Adjust feet using level bubble. Perform calibration (Section 6.5). Relocate balance to a stable, draft-free area. Clean the weighing pan.
Balance does not turn on	No power Faulty power adapter	Check power connection and outlet. Try a different power source or adapter if available.
Display is unstable	Vibrations Air currents Electromagnetic interference	Ensure stable surface. Shield from drafts. Move away from other electronic devices.



Figure 8.1: Example of a fault visualization, such as an overload warning ("OL").

9. SPECIFICATIONS

Feature	Detail
Model	3000gBalance
Capacity	3000g (6.6 lbs)
Readability / Accuracy	0.01g
Weighing Pan Material	Stainless Steel
Weighing Pan Size	5 in x 5 in (12.8 cm diameter)
Housing Material	ABS
Display Type	LCD with Backlight

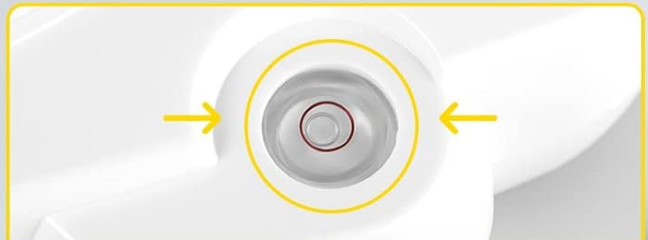
Feature	Detail
Unit Conversion	13 units (g, ct, oz, ozt, N, lb, dr, GN, dwt, %, tIT, T, TAR)
Functions	Tare/Zero, Counting (PCS), Calibration (CAL)
Power Source	AC Power Adapter, Mobile Power (USB)
Dimensions (L x W x H)	9.1 in x 7.1 in x 2.4 in (23.0 cm x 18.0 cm x 6.0 cm)
Weight	2.56 kg (approx.)

STABLE WEIGHTING DESIGN

Get accurate results by adjusting the scale until stably placed



Adjustable Feet



Level Bubble



Fault Visualization



Calibration Weight

Two Powering Ways



Power Cord



Mobile Power

Figure 9.1: Product dimensions of the VEVOR Analytical Balance.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official VEVOR website. Keep your purchase receipt as proof of purchase.

For further assistance, you may contact VEVOR customer service through their official channels.