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› GOYOJO Precision Electronic Balance GY5003 User Manual

GOYOJO GY5003

GOYOJO Precision Electronic Balance User Manual

Model: GY5003

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, maintenance, and troubleshooting of your GOYOJO Precision Electronic Balance, model GY5003. This instrument is designed for high-precision weighing in various professional and educational environments.



Image: The GOYOJO Precision Electronic Balance GY5003, featuring a clear weighing chamber and digital display.

Key Features:

- **High Precision:** Capable of measuring up to 500g with a readability of 0.001g, ensuring accurate results for small and valuable samples.
- **Multiple Weighing Units:** Supports various units beyond grams (g) for versatile applications.
- **Tare Function:** Allows for the subtraction of container weight to obtain the net weight of the sample.
- **Piece Counting Function:** Enables accurate counting of multiple identical items.
- **Percentage Conversion:** Provides a percentage value of the weighed item relative to a reference sample.
- **Overload Protection:** Incorporates a durable mechanism for stable and long-term weighing.
- **External Calibration:** Includes an external calibration weight for precise sensitivity adjustment.

幅広い用途

研究、分析、実験、工場、農業、工業手軽に高精度計量が可能な電子はかり



研究



分析



実験



工場



農業



工業

Image: Various applications of the GOYOJO Precision Electronic Balance, including research, analysis, experiments, factory use, agriculture, and industrial settings.

2. SETUP

Proper setup is crucial for accurate measurements. Follow these steps carefully:

1. **Unpacking:** Carefully remove the balance and all accessories from the packaging. Retain the packaging for future transport or storage.
2. **Placement:** Place the balance on a stable, level surface free from vibrations, drafts, and direct sunlight.

Ensure the surface is clean and dry.

3. **Leveling:** Use the adjustable feet at the bottom of the balance and the built-in bubble level (if present) to ensure the balance is perfectly level. Adjust the feet until the bubble is centered.
4. **Power Connection:** Connect the power adapter to the balance and then to a suitable power outlet.
5. **Initial Power On:** Press the **ON/OFF** button to turn on the balance. Allow a few minutes for the balance to warm up and stabilize before use.
6. **Calibration:** For optimal accuracy, perform an external calibration using the provided calibration weight before first use and periodically thereafter. Refer to the "Calibration" section in Operating Instructions for details.

3. OPERATING INSTRUCTIONS

3.1 Basic Weighing

1. Ensure the balance is level and stable.
2. Press **ON/OFF** to turn on the balance.
3. Wait for the display to show "0.000g".
4. Carefully place the item to be weighed on the center of the weighing pan.
5. Read the stable weight displayed on the screen.

3.2 Unit Conversion

The balance supports multiple weighing units. To change the unit:

- Press the **FUNC** button repeatedly to cycle through available units (e.g., g, ct, TAR, PKT, dr, GN, TMR, gsmozt, tIJ, lb, dwt, tIT, kg, pcs, tIH).
- Select the desired unit for your measurement.



多種表示単位

以外の単位で質量を表示させることができます。

Image: The balance display showing various available weighing units such as grams (g), carats (ct), pounds (lb), and kilograms (kg).

3.3 Tare Function

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

1. Place the empty container on the weighing pan.
2. Wait for the display to stabilize.
3. Press the **TARE/CAL** button. The display will reset to "0.000g".
4. Add the substance to be weighed into the container. The display will show only the weight of the substance.

5. To clear the tare, remove the container and its contents, then press **TARE/CAL** again.

風袋引き機能

計量物の袋や皿など、
計量する対象物以外の重さを先に引く機能。



Image: A visual demonstration of the tare function, showing the balance displaying the container weight, then zeroing out after pressing TARE/CAL, and finally displaying only the net weight of the contents.

3.4 Piece Counting (PCS) Function

This function is used to count a large number of identical items based on their average weight.

1. Ensure the balance is at "0.000g".
2. Press the **PCS** button. The display will show "PCS" and prompt for a sample quantity (e.g., "10 PCS").

3. Place a known quantity of items (e.g., 10 pieces) on the weighing pan as a sample.
4. Press **PCS** again to confirm the sample quantity. The balance will calculate the average weight per piece.
5. Remove the sample and then place the bulk quantity of items to be counted on the pan. The display will show the total number of pieces.
6. For accurate results, individual item weight variation should be within 5%, and the average weight per piece must be greater than the minimum readability.



Image: The balance demonstrating the piece counting function, showing a small sample of screws on the pan and the display indicating the count.

3.5 Percentage Conversion (%) Function

This function allows you to measure the weight of a sample as a percentage of a reference sample.

1. Ensure the balance is at "0.000g".
2. Press the **FUNC** button until the display shows "%".
3. Place your reference sample on the weighing pan.
4. Press **TARE/CAL** to set this as 100%.
5. Remove the reference sample.
6. Place the sample you wish to measure as a percentage on the pan. The display will show its weight as a percentage of the reference sample.



パーセント (%) 換算

研究室や実験室での計量パーセントに
高レベルの正確度と精度を提供。

Image: The balance displaying a percentage value, indicating the use of the percentage conversion function for laboratory measurements.

3.6 Calibration

Calibration ensures the accuracy of your balance. It is recommended to calibrate the balance regularly or if it has been moved.

1. Ensure the balance is on a stable, level surface and the weighing pan is empty.
2. Press and hold the **TARE/CAL** button until "CAL" appears on the display, then release.
3. The display will show the required calibration weight (e.g., "500g").

4. Carefully place the specified calibration weight (500g) on the center of the weighing pan.
5. Wait for the balance to automatically calibrate. Once complete, the display will show "PASS" or return to "0.000g".
6. Remove the calibration weight. The balance is now calibrated and ready for use.

4. MAINTENANCE

Regular maintenance will prolong the life and accuracy of your balance.

- **Cleaning:**
 - Wipe the balance with a soft, damp cloth. Use a mild detergent if necessary.
 - Do not use abrasive cleaners, solvents, or immerse the balance in water.
 - Keep the weighing pan and surrounding area clean from dust and debris.
- **Storage:**
 - When not in use, store the balance in a clean, dry, and stable environment.
 - Avoid extreme temperatures, humidity, and direct sunlight.
 - If storing for an extended period, disconnect the power adapter.
- **Handling:**
 - Handle the balance with care. Avoid dropping or subjecting it to sudden shocks.
 - Do not place objects heavier than the maximum capacity (500g) on the weighing pan.

5. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Display shows "Err" or "OUE"	Overload or incorrect calibration.	Remove any excess weight. Recalibrate the balance.
Inaccurate readings	Balance not level, vibrations, drafts, or needs calibration.	Ensure balance is level. Place on a stable surface away from drafts. Perform calibration.
Display is blank	No power, power adapter faulty.	Check power connection. Ensure power outlet is working. Try a different power adapter if available.
Balance does not respond to buttons	Temporary software glitch.	Turn off the balance, disconnect power, wait 30 seconds, then reconnect and turn on.

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

6. SPECIFICATIONS

Detailed technical specifications for the GOYOJO Precision Electronic Balance GY5003.

Specification	Value
Model Number	GY5003

Specification	Value
Capacity	0.005g - 500g
Readability (Minimum Display)	0.001g
Repeatability	±0.005g
Linearity	±0.005g
Output Interface	RS232C/USB (Optional)
Weighing Pan Diameter	Φ90mm
Product Dimensions	32cm x 19.5cm x 28cm
Package Dimensions	37.5cm x 25.5cm x 34cm
Net Weight	2600g
Gross Weight	3500g
Power Supply	110V/220-240V AC

製品仕様



製品仕様

型番	GY5003	表示単位	多種
精度	0.001機種	風袋引き機能	付き
最大計測	500g	個数をはかる機能	付き
感度校正	外部分銅	(%) 換算機能	付き

Image: Diagram illustrating the dimensions of the GOYOJO Precision Electronic Balance.

商品仕様

型番	GY5003
容量	0.005-500g
最小表示	0.001g
再現性	±0.005g
直線性	±0.005g
出力インターフェース	RS232C/USB (オプション)
計量皿寸法	Φ90mm
製品サイズ	32cm x 19.5cm x 28cm
梱包サイズ	37.5cm x 25.5cm x 34cm
正味重量	2600g
総重量	3500g
電源	110V/220-240V AC

Image: A table summarizing the detailed specifications of the balance, including model, precision, capacity, and various functions.

7. WARRANTY AND SUPPORT

Your GOYOJO Precision Electronic Balance comes with a comprehensive warranty and dedicated customer support.

- **12-Month Quality Warranty:** The product is covered by a 1-year quality warranty from the date of purchase.
- **Free Exchange/Refund:** In the event of initial product defects, we offer a free exchange or a full refund.
- **Customer Support:** For any inquiries, issues, or support needs, please feel free to contact our customer

support team. Provide your order number and product model for prompt assistance.



Image: An icon representing customer support and text indicating a one-year warranty.