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› GOYOJO 5000g Precision Electronic Balance User Manual (0.01g Accuracy)

## GOYOJO JT-TP-GY50002

# GOYOJO 5000g Precision Electronic Balance User Manual

Model: JT-TP-GY50002

## 1. PRODUCT OVERVIEW

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The GOYOJO Precision Electronic Balance is designed for accurate weighing in various environments, including laboratories, kitchens, and educational settings. It offers a high level of precision and a range of useful functions to simplify weighing tasks.



Image: The GOYOJO Precision Electronic Balance, showing its stainless steel weighing pan and control panel.

## Key Features:

- **0.01g Precision Measurement:** Ensures detection of even the smallest weight fluctuations, crucial for scientific experiments and quality control.
- **Percentage Function:** Allows quick and precise weighing of materials relative to each other, ideal for formulations in laboratories or recipes in the kitchen.
- **Versatile Unit Conversion:** Supports 19 different units (g/kg/ct/T/TAR/dr/PKT/GN/TMR/gsm/tIJ/mo/dwt/oz/lb/tIT/ozt/tIH/%) for diverse applications.
- **Tare/Calibration Function:** Easily subtracts container weight and allows for accurate calibration.
- **Piece Counting Function:** Simplifies counting of multiple small items.
- **Durable Construction:** Features an 185 x 145 mm stainless steel weighing pan, durable ABS casing, and a robust strain gauge sensor for long-term reliability.
- **User-Friendly Design:** Large LCD display for clear readings in various lighting conditions and adjustable feet for precise leveling.

- **Wide Application:** Suitable for laboratories, universities, businesses, industry, jewelers, and kitchen use.

**GOYOJO**

## 5000g Laborwaage

- 0.01g** 0.01g Ablesbarkeit
- 19 Einheiten Umrechnung
- 2 Stromversorgungsmodi
- LCD** Hintergrundbeleuchtetes LCD-Display

Image: The balance is suitable for various applications including laboratories, industries, kitchens, and schools.

## Stückzählung (PCS)

Im Zählmodus wird sichergestellt, dass jedes Probenobjekt ein einheitliches Gewicht hat (die individuellen Unterschiede müssen mindestens innerhalb von 5% liegen).

Image: Illustration of the smart load cell technology, highlighting improved efficiency and accuracy with 0.01g readability.



Image: Diagram pointing out key components: adjustable feet, LCD display, power button, counting button, unit conversion button, and tare/calibration button.

## 2. SETUP AND INSTALLATION

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### 2.1 Unpacking and Placement

1. Carefully remove the balance from its packaging.

2. Place the balance on a stable, flat, and vibration-free surface to ensure accurate readings.
3. Remove the protective film from the stainless steel weighing pan before first use.
4. Adjust the four adjustable feet at the bottom of the balance until the bubble in the level indicator (if present) is centered, ensuring the balance is perfectly level.

## 2.2 Power Supply

The balance can be powered by either AA batteries or an AC adapter.

# TWO MODES OF POWER SUPPLY



**AA Battery \* 4  
(Not Included)**



Turn on this switch when using battery power.

**Adapter Interface**



Image: The underside of the balance showing the battery compartment and adapter interface.

### Using AA Batteries:

1. Turn the balance upside down.
2. Open the battery compartment cover.
3. Insert 4 AA batteries (not included), ensuring correct polarity.
4. Close the battery compartment cover.
5. For battery power, activate the battery control switch (usually a small switch near the battery compartment).

### Using AC Adapter:

1. Locate the adapter interface on the side or back of the balance.
2. Plug the provided AC adapter into the interface.
3. Connect the adapter to a suitable power outlet.

Video: This video demonstrates how to install AA batteries and connect the AC adapter to the GOYOJO electronic balance. It also shows the initial power-on sequence, tare function, unit conversion, and piece counting.

Video: Demonstration of power supply options, initial startup, tare function, unit conversion, and piece counting.

## 3. OPERATION

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### 3.1 Power On/Off

Press the **ON/OFF** button to turn the balance on or off. The display will show "0.00" when ready for use.

### 3.2 Tare Function

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

1. Place an empty container on the weighing pan. The display will show its weight.
2. Press the **TARE/CAL** button. The display will reset to "0.00".
3. Add the items you wish to weigh into the container. The display will now show only the net weight of the items.

# TARE FUNCTION

※ Be used to automatically subtract the weight of a container or other object from the measured weight when weighing an object.



Container Weight



Press the "TARE/CAL" button



Net weight of the object  
(excluding container weight)

Image: Visual guide demonstrating how to use the Tare function to zero out the weight of a container.

Refer to the video in Section 2.2 for a visual demonstration of the Tare function.

## 3.3 Unit Conversion

The balance supports 19 different weighing units. To switch between units:

- Press the **UNIT** button repeatedly to cycle through the available units: g, kg, ct, T, TAR, dr, PKT, GN, TMR, gsm, tLJ, mo, dwt, oz, lb, tIT, ozt, tIH, %.

- The selected unit will be displayed on the LCD screen.

# 19 UNITS CONVERSION

※ Quickly switch 19 units by simply press the UNIT button.

g kg ct T TAR dr PKT GN  
TMR gsm tIJ mo dwt oz  
lb tIT ozt tIH %



Image: The balance display illustrating the various units available for conversion.

Refer to the video in Section 2.2 for a visual demonstration of unit conversion.

## 3.4 Piece Counting Function

This function allows you to count a quantity of items based on a sample weight. Ensure that individual items have a consistent weight (differences within 5%).

1. With the balance displaying "0.00", press and hold the **PCS** button for approximately 3 seconds to enter counting mode.
2. The display will show a sample size (e.g., "10", "20", "50", "100"). Press **UNIT** to select the desired sample size.
3. Place the corresponding number of sample items on the pan (e.g., 10 items if "10" is selected).
4. Press **PCS** again to confirm the sample. The display will show the number of items.
5. You can now add more items, and the balance will count them based on the sample weight.

# PIECE COUNTING

※ In counting mode, ensure every sample object have consistent weight (at least individual differences must be within 5%).



Image: The balance display showing the piece counting function in action with paper clips.

*Refer to the video in Section 2.2 for a visual demonstration of the Piece Counting function.*

### **3.5 Percentage Function**

The percentage function allows you to weigh materials as a percentage of a reference quantity.

1. Place your reference material on the weighing pan.
2. Press and hold the **UNIT** button until "%" appears on the display. The reference material's weight will now be displayed as 100%.
3. Add other materials, and their weights will be shown as a percentage of the reference material.

# PERCENTAGE CONVERSION

※ Providing a high level of accuracy and precision for percentage weighing in laboratory and experiment setting.



Image: The balance display showing the percentage conversion function, with a beaker indicating 80% of a reference quantity.

## 3.6 Calibration

To ensure continued accuracy, periodic calibration is recommended. A 5000g calibration weight (not included) is required.

1. Ensure the balance is on a stable, level surface and displaying "0.00".
2. Press and hold the **TARE/CAL** button until "CAL" appears on the display.
3. The display will then show the required calibration weight (e.g., "5000.00g").

4. Carefully place the 5000g calibration weight in the center of the weighing pan.
5. Wait for the display to stabilize and show "PASS" or return to "0.00".
6. Remove the calibration weight. The balance is now calibrated.



Image: Step-by-step visual guide for calibrating the electronic balance with a 5000g weight.

## 4. MAINTENANCE

- Keep the balance clean. Wipe the weighing pan and casing with a soft, damp cloth. Do not use abrasive cleaners or immerse the unit in water.
- Store the balance in a dry, stable environment away from extreme temperatures, humidity, and direct sunlight.
- Avoid placing heavy objects on the pan when not in use to prevent damage to the sensor.
- If using batteries, remove them if the balance will not be used for an extended period to prevent leakage.

## 5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display shows "Lo" or "Err"	Low battery or overload.	Replace batteries or remove excess weight from the pan.
Inaccurate readings	Unstable surface, not level, needs calibration, or air currents.	Place on a stable, level surface. Calibrate the balance. Avoid drafts.
Balance does not turn on	No power, dead batteries, or battery switch off.	Check power adapter connection or replace batteries. Ensure battery control switch is ON if using batteries.
Display shows "OUER"	Overload.	Remove some weight from the pan. Do not exceed the maximum capacity of 5000g.

## 6. SPECIFICATIONS

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Feature	Detail
Model Number	JT-TP-GY50002-240727
Brand	GOYOJO
Maximum Capacity	5000g (5 kg)
Readability / Precision	0.01g
Weighing Units	g, kg, ct, T, TAR, dr, PKT, GN, TMR, gsm, tLJ, mo, dwt, oz, lb, tIT, ozt, tIH, % (19 units)
Display Type	LCD (Backlit)
Weighing Pan Material	Stainless Steel
Product Dimensions (L x W x H)	22.5 x 22.5 x 8 cm (8.85 x 8.85 x 3.15 inches)
Item Weight	1.5 kg (1500 Grams)
Power Source	4 x AA batteries (not included) or AC Adapter
Special Features	Intelligent, Precise Measurement, Tare, Calibration, Piece Counting, Percentage Function
Country of Origin	China



### Product Specifications

Model:	GY50002
Readability:	0.01g
Max. Capacity:	5000g
Units .	g/kg/ct/T/TAR/dr/PKT/GN/TMR/gsm/tlJ/mo/dwt/oz/lb/tIT/ozt/tlH/%
Taring:	Yes
Calibration:	Yes (Calibration weight not included)
Piece Counting:	Yes

Image: Detailed product specifications including model, readability, capacity, and units.

## 7. WARRANTY AND SUPPORT

GOYOJO offers quality assurance for this product. If you encounter any issues with the balance or charger within one year of purchase, please contact us for assistance or replacement.

For further support, please refer to the contact information provided with your purchase or visit the official GOYOJO website.

