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## Radweg WLC 0.6/A1/C/2

# Radweg WLC 0.6/A1/C/2 NTEP Precision Balance User Manual

Model: WLC 0.6/A1/C/2

## 1. INTRODUCTION

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The Radweg WLC C/2 series balance is engineered for accurate mass determination in both laboratory and industrial environments. This precision balance offers reliable performance and ease of use, featuring an internal rechargeable battery for portability and various connectivity options.

Key features include:

- Maximum Capacity: 0.6 kg (600g)
- Readability: 0.01 g
- Internal Calibration for consistent accuracy
- Backlit LCD Display for clear readings
- Multiple Functions: Totalizing, Parts Counting, Percent Weighing, Peak Hold
- Connectivity: 2×RS232, USB-A, USB-B ports
- Stainless steel weighing platform



Figure 1: Front view of the Radwag WLC 0.6/A1/C/2 NTEP Precision Balance. The balance features a stainless steel weighing pan, a backlit LCD display, and a control panel with various function buttons.

## 2. SETUP

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### 2.1 Unpacking and Inspection

Carefully remove the balance from its packaging. Inspect all components for any signs of damage. Ensure all accessories, such as the power adapter and weighing pan, are present.

### 2.2 Placement

Place the balance on a stable, level surface free from vibrations, drafts, and direct sunlight. Avoid locations near heat sources or air conditioning vents, as these can affect measurement accuracy.

### 2.3 Leveling

The balance is equipped with adjustable feet and a spirit level (bubble level). Adjust the feet until the bubble in the spirit level is centered, indicating the balance is perfectly level.

### 2.4 Power Connection

Connect the provided AC adapter to the balance and a suitable power outlet. The balance also includes an internal rechargeable battery, allowing for operation in locations without direct mains access. Ensure the battery is charged before portable use.

### 2.5 Initial Calibration

Before first use, or after relocation, perform an internal calibration. Refer to the 'Operating' section for detailed calibration instructions.



Figure 2: Rear view of the balance, highlighting the power input, RS232 ports, and USB ports for external device connections.

## 3. OPERATING INSTRUCTIONS

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### 3.1 Power On/Off

- To power on: Press the **ON/OFF** button.

- To power off: Press and hold the **ON/OFF** button until the display turns off.

### 3.2 Basic Weighing

1. Ensure the weighing pan is clean and empty.
2. Press the **TARE** button to zero the display.
3. Carefully place the item to be weighed on the center of the weighing pan.
4. Wait for the reading to stabilize (indicated by a stability marker on the display).
5. Read the weight displayed on the LCD.

### 3.3 Tare Function

To weigh an item in a container:

1. Place the empty container on the weighing pan.
2. Press the **TARE** button. The display will show zero.
3. Add the item to be weighed into the container. The display will show the net weight of the item.

### 3.4 Weighing Modes and Functions

The WLC C/2 balance supports various weighing modes. Use the **MODE** or **FUNCTION** button (refer to the balance's specific button layout) to cycle through available modes:

- **Parts Counting:** For determining the number of identical items based on a sample weight.
- **Percent Weighing:** For measuring weight as a percentage of a reference weight.
- **Totalizing:** Accumulates multiple weighings.
- **Peak Hold:** Captures and displays the maximum weight detected during a measurement.

### 3.5 Internal Adjustment / Calibration

The balance features automatic internal adjustment. Consult the on-screen prompts or the full user manual for initiating this process. Regular calibration ensures optimal accuracy.

## 4. MAINTENANCE

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### 4.1 Cleaning

Regular cleaning is essential for maintaining accuracy and longevity. Use a soft, damp cloth with a mild detergent to clean the exterior and stainless steel weighing pan. Do not use abrasive cleaners or immerse the balance in water. Ensure no liquids enter the internal components.

### 4.2 Storage

When not in use for extended periods, store the balance in a dry, dust-free environment at room temperature. Disconnect it from the power supply if using the AC adapter.

### 4.3 Battery Care

If using the internal rechargeable battery, ensure it is fully charged before long-term storage to prolong its lifespan. Avoid completely draining the battery frequently.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter.

### 5.1 Unstable Readings

- Check if the balance is level.
- Ensure the balance is on a stable surface, free from vibrations.
- Eliminate drafts from air conditioning, open windows, or nearby equipment.
- Verify the weighing pan is correctly seated and clean.
- Perform an internal calibration.

## 5.2 No Power

- Check the power cable connection to both the balance and the outlet.
- Ensure the power outlet is functional.
- If operating on battery, ensure the battery is charged.

## 5.3 Calibration Errors

If calibration fails or results in inaccurate readings, ensure the balance is stable, level, and free from external disturbances. Repeat the internal calibration process carefully. If issues persist, contact customer support.

## 6. SPECIFICATIONS

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Specification	Value
Brand	Radwag
Model	WLC 0.6/A1/C/2
Maximum Capacity	0.6 kg (600 g)
Readability	0.01 g
Product Dimensions	13 x 6 x 4 inches
Display Type	Backlit LCD
Special Features	Internal Calibration, Totalizing Functions, Weighing Modes
Connectivity	2×RS232, USB-A, USB-B
Manufacturer	Radwag

## 7. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please contact Radwag USA directly. Ensure you have your product model number (WLC 0.6/A1/C/2) and purchase details available when contacting support.

You can find more information and contact details by visiting the official Radwag Store: [Radwag Store on Amazon](#).