

Ohaus 30031791

Ohaus RC31P30 Ranger 3000 Count Bench Scale User Manual

Model: 30031791

INTRODUCTION

This manual provides comprehensive instructions for the proper setup, operation, and maintenance of your Ohaus Ranger 3000 Count Bench Scale, model RC31P30. The Ranger Count 3000 is designed for high-precision counting and weighing applications, offering reliable performance for various industrial and scientific tasks.

SAFETY INFORMATION

Always observe the following safety precautions to ensure safe operation and prolong the life of your scale:

- Do not overload the scale beyond its maximum capacity of 30 kg (60 lb).
- Operate the scale on a stable, level surface to ensure accurate readings.
- Avoid exposing the scale to extreme temperatures, humidity, or direct sunlight.
- Keep the scale clean and free from dust, dirt, and corrosive substances.
- Disconnect the power supply before cleaning or performing any maintenance.
- Do not attempt to disassemble or repair the scale yourself. Refer to qualified service personnel.

PRODUCT OVERVIEW



Figure 1: Ohaus Ranger 3000 Count Bench Scale. This image displays the complete scale unit, highlighting its stainless steel weighing platform, the grey control panel with three backlit LCD displays for weight, piece weight, and count, and the numeric keypad with function buttons like Sample and Tare.

The Ohaus Ranger 3000 features a robust design suitable for industrial environments. Key components include:

- **Weighing Platform:** Stainless steel, durable and easy to clean.
- **Display:** Three backlit LCD displays for Weight, Piece Weight, and Count.
- **Keypad:** Numeric keypad for data entry and function keys for various operations (e.g., Sample, Tare, On/Zero, Print, Menu, APW).
- **Level Indicator:** For ensuring proper setup.
- **Adjustable Feet:** For leveling the scale.
- **Power Input:** For AC adapter and rechargeable battery.
- **RS232 Port:** For connectivity to external devices.

SETUP

1. **Unpacking:** Carefully remove the scale from its packaging. Retain all packaging materials for future transport or storage.
2. **Placement:** Place the scale on a firm, stable, and level surface, away from vibrations, drafts, and direct heat sources.
3. **Leveling:** Adjust the four adjustable feet until the bubble in the level indicator is centered. This ensures accurate weighing.
4. **Power Connection:** Connect the supplied AC adapter to the power input on the rear of the scale and plug it into a suitable power outlet. The internal rechargeable battery will begin charging. The scale can operate on battery power for over 200 hours when fully charged.
5. **Initial Power On:** Press the **ON/ZERO** button to turn on the scale. Allow a few seconds for the scale to stabilize and

perform its self-test.

OPERATING INSTRUCTIONS

Weighing Mode

1. Ensure the scale is level and stable.
2. Press the **ON/ZERO** button to zero the display if necessary.
3. Place the item to be weighed on the center of the weighing platform.
4. Read the stable weight value displayed in the 'Weight' window.
5. To tare a container, place the empty container on the platform and press the **TARE** button. The display will show zero, and you can then add the material to be weighed.

Parts Counting Mode

The Ranger 3000 excels in precise parts counting. It uses Average Piece Weight (APW) for calculation.

1. **Entering Counting Mode:** Ensure the scale is in weighing mode and zeroed.
2. **Sampling:**
 - Place a known quantity of items (e.g., 10, 20, 50, 100) on the platform.
 - Enter the quantity using the numeric keypad.
 - Press the **SAMPLE** button. The scale will calculate the Average Piece Weight (APW) and display the count in the 'Count' window.
3. **Counting:** Once the APW is established, you can add more items to the platform, and the 'Count' window will display the total number of pieces.
4. **APW Recalculation:** The scale features automatic APW recalculation for improved accuracy with varying sample sizes.
5. **Low APW Alert:** The scale will alert you if the Average Piece Weight is too low for accurate counting.

Checkweighing/Checkcounting

This function allows you to check if a batch of items falls within a predefined target range (low and high limits).

1. Access the menu to set the desired low and high limits for weight or count.
2. Place items on the platform. The scale will indicate if the quantity is within, below, or above the set limits.

MAINTENANCE

- **Cleaning:** Clean the scale regularly with a damp cloth and mild detergent. Do not use abrasive cleaners or immerse the scale in water. Ensure the scale is unplugged before cleaning.
- **Battery Care:** For optimal battery life, fully charge the battery before first use. If the scale is stored for extended periods, charge the battery periodically (e.g., every 3 months) to prevent deep discharge.
- **Calibration:** While the scale is factory calibrated, periodic calibration may be required depending on usage and local regulations. Refer to the full technical manual for calibration procedures or contact Ohaus service.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Display shows "Err" or unstable readings.	Scale not level, unstable surface, overload, or external interference.	Check level indicator and adjust feet. Move scale to a stable surface. Remove excess weight. Eliminate drafts or vibrations.
Scale does not turn on.	No power, discharged battery, or faulty power adapter.	Ensure AC adapter is properly connected and power outlet is active. Charge battery. Try a different power outlet.
Inaccurate counting.	Incorrect sample size, inconsistent piece weight, or scale not calibrated.	Ensure sample size is appropriate for item weight. Use uniform pieces for sampling. Perform calibration if necessary.
Low battery indicator.	Battery charge is low.	Connect the AC adapter to recharge the battery.

SPECIFICATIONS

Feature	Detail
Model	RC31P30
Capacity	30 kg / 60 lb
Readability	0.001 kg / 0.002 lb
Certified Readability	0.01 kg / 0.02 lb
Internal Counting Resolution	1:1,500,000
Display Type	3 Backlit LCDs (Weight, Piece Weight, Count)
Applications	Weighing, Parts Counting, Checkweighing, Checkcounting, Accumulation
Connectivity	RS232
Power	AC Adapter (included), Rechargeable Battery (200+ hours operation)
Product Dimensions	18 x 16 x 8 inches
Item Weight	9.2 Pounds
Approvals	NTEP & Measurement Canada approved

WARRANTY AND SUPPORT

Ohaus products are manufactured under strict quality standards. For warranty information, technical support, or service inquiries, please contact Ohaus customer service or visit their official website. Please have your model number (RC31P30) and serial number ready when contacting support.

For further assistance, please refer to the official Ohaus website or contact your local Ohaus distributor.

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