RUISHAN 30kg/0.5g

RUISHAN Industrial Counting Scale 30kg/0.5g User Manual

Model: 30kg/0.5g

1. Introduction

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your RUISHAN Industrial Counting Scale. This electronic digital scale is designed for precise weighing and counting of various items, such as parts, coins, and other small components, in industrial, laboratory, and commercial environments. It features a high-sensitivity sensor and a 5-inch LED display for clear readings.

2. Product Overview

2.1 Key Features

- **Functions:** Tare, external calibration, counting (quantity sampling and weight sampling modes), weighing, and print capability.
- **Units:** Supports Pounds (lb), Kilograms (kg), Ounces (oz), and Grams (g).
- **Alerts:** Configurable upper and lower limit alarms for both weight and quantity, with visual (screen color change, flashing) and audible indicators.
- **Display:** Large 5-inch LED display with bright backlight for enhanced readability.
- **Durability:** Constructed with rugged, laboratory-grade materials and a reinforced ABS body.
- **Connectivity:** Equipped with an RS232 serial port for connecting to computers or printers.
- **Weighing Pan:** Stainless steel, reversible design to function as a flat platter or a tray for small parts.

2.2 Components

The product package includes the following items:

- RUISHAN Industrial Counting Scale Unit
- Stainless Steel Weighing Pan
- Power Cord (Standard American plug)
- User Manual (this document)

Note: The RS232 data cable and optional batteries are not included and must be purchased separately.



Image 2.1: Front view of the RUISHAN Industrial Counting Scale with items on the pan.



Image 2.2: Detailed view highlighting the RS-232 port, reversible weighing tray, and function keys.

3. Setup

3.1 Unpacking and Placement

1. Carefully remove all components from the packaging.
2. Place the scale on a stable, level surface, free from vibrations, drafts, and direct sunlight.
3. Use the four adjustable feet located at the bottom of the scale to ensure it is perfectly level. Refer to the built-in level bubble for guidance.
4. Place the stainless steel weighing pan securely on the scale platform.

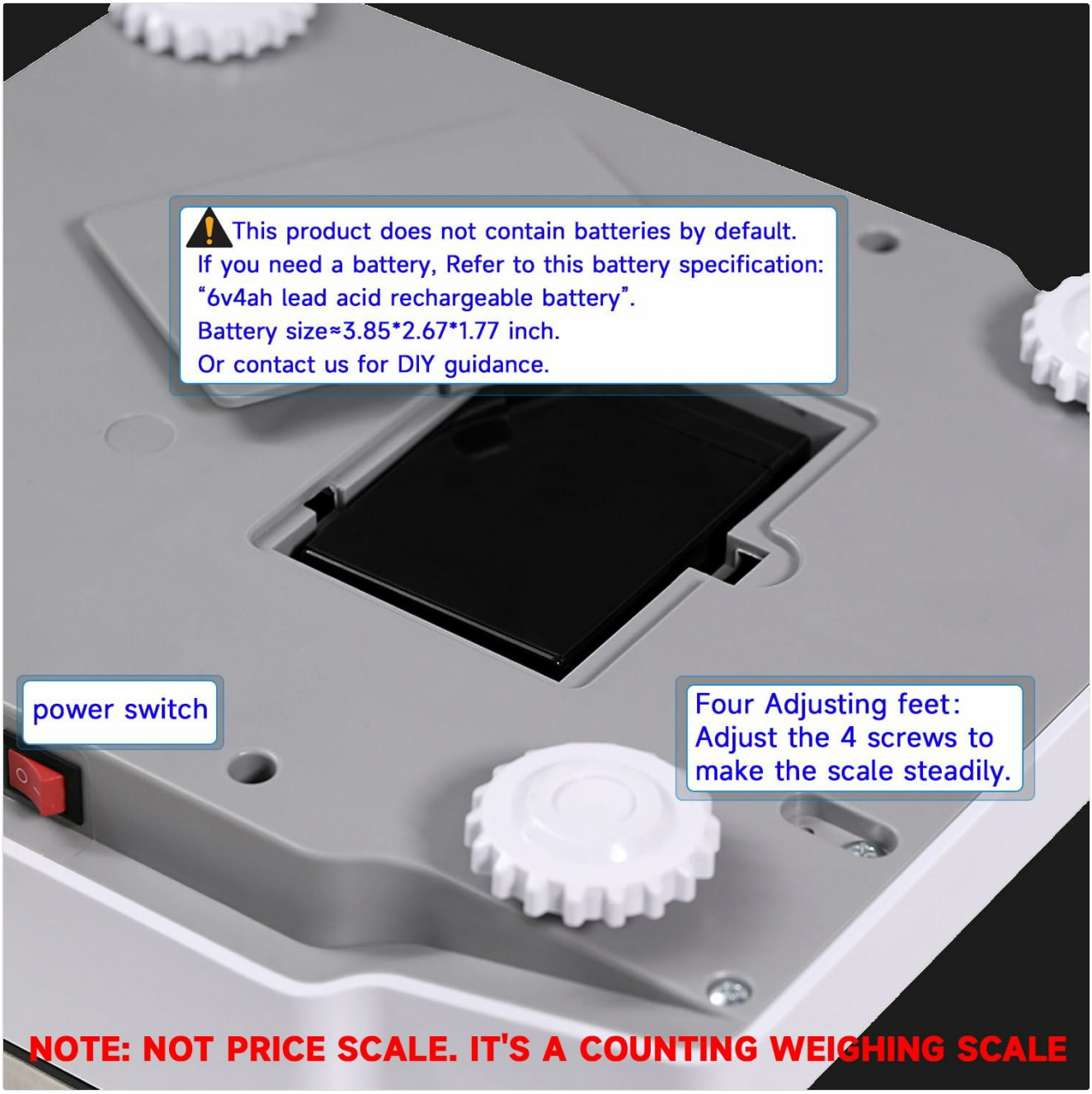


Image 3.1: Underside view showing the battery compartment, power switch, and adjustable feet.

3.2 Power Connection

1. Connect the provided power cord to the scale's power input and then to a standard 110V AC power outlet. The scale supports 100-240V input.
2. If using optional battery power, ensure the battery (6v4ah lead acid rechargeable battery, size 3.85"x2.67"x1.77") is correctly installed in the battery compartment.
3. Turn on the scale using the power switch, typically located on the underside or side of the unit.

3.3 Initial Calibration

The scale is factory-calibrated. However, for optimal accuracy, especially after initial setup or relocation, external calibration is recommended. Refer to the 'External Calibration' section in the full user manual for detailed steps.

4. Operation

4.1 Basic Weighing

1. Ensure the scale is powered on and displays '0.00'.
2. Gently place the item to be weighed on the center of the weighing pan.
3. Read the stable weight displayed on the LED screen.

4.2 Tare Function

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

1. Place the empty container on the weighing pan.
2. Press the **TARE** button. The display will reset to '0.00'.
3. Add the items to be weighed into the container. The display will show the net weight of the items.

4.3 Unit Conversion

To change the weighing unit (g, kg, lb, oz):

- Press and hold the **MC/UNITS** button for approximately 3 seconds.
- The unit will cycle through the available options. Release the button when the desired unit is displayed.

4.4 Counting Function

The scale supports both quantity sampling and weight sampling modes for counting.

1. Place a known number of sample items (e.g., 10, 20, 50, 100) on the pan.
2. Use the **PIECE COUNTING** or **WEIGHT COUNTING** button and follow the on-screen prompts to input the sample quantity.
3. Once the sample is set, remove the sample and place the bulk items on the pan. The scale will display the total count.



Image 4.1: Keypad layout with function buttons.

4.5 Alarm Function (Check Weighing/Counting)

Set upper and lower limits for weight or quantity to trigger an alarm.

1. Press the **CHECK** button to enter the alarm setting mode.
2. Use the numeric keypad to input the desired upper and lower limit values for weight or quantity.
3. Confirm the settings. When the measured weight or quantity falls outside the set limits, the screen text will change color and flash, accompanied by an audible alert.



Image 4.2: Display showing alarm indicators for exceeding or falling below set limits.

4.6 RS232 Connection and Printing

The RS232 port allows data transfer to a computer or printer.

1. Connect the scale's RS232 port to your computer or printer using a compatible RS232 data cable (not included).
2. Ensure your computer or printer is configured to receive data from the scale.
3. Press the **PRINT** button on the scale to send the current measurement data.



Image 4.3: RS232 interface for connecting to external devices like computers and printers.

5. Maintenance

5.1 Cleaning

- Wipe the scale's exterior with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- The stainless steel weighing pan can be removed and cleaned separately with mild soap and water. Ensure it is completely dry before re-placing it on the scale.
- Do not immerse the scale unit in water.

5.2 Storage

- Store the scale in a dry, stable environment, away from extreme temperatures, humidity, and direct sunlight.
- If storing for an extended period, disconnect the power cord and remove any optional batteries.

5.3 Calibration

Regular external calibration is crucial to maintain the scale's accuracy. The frequency of calibration depends on

usage and environmental conditions. Refer to the full user manual for detailed external calibration procedures.

6. Troubleshooting

This section addresses common issues you might encounter with your RUISHAN Industrial Counting Scale.

- **Scale does not power on:** Check if the power cord is securely connected to both the scale and the power outlet. If using batteries, ensure they are correctly installed and charged.
- **Inaccurate readings:** Ensure the scale is on a level, stable surface. Check for any obstructions under the weighing pan. Perform an external calibration if necessary.
- **Overload alarm:** If the display shows an overload indicator, remove some weight from the pan. The scale's maximum capacity is 30kg (66lb).
- **Error indication:** If an error code appears, consult the full user manual for specific error code meanings and troubleshooting steps.
- **Counting errors:** Ensure the sample quantity used for counting is accurate and representative of the items being counted. Re-sample if necessary.

For issues not covered here, please contact RUISHAN customer support.

7. Specifications

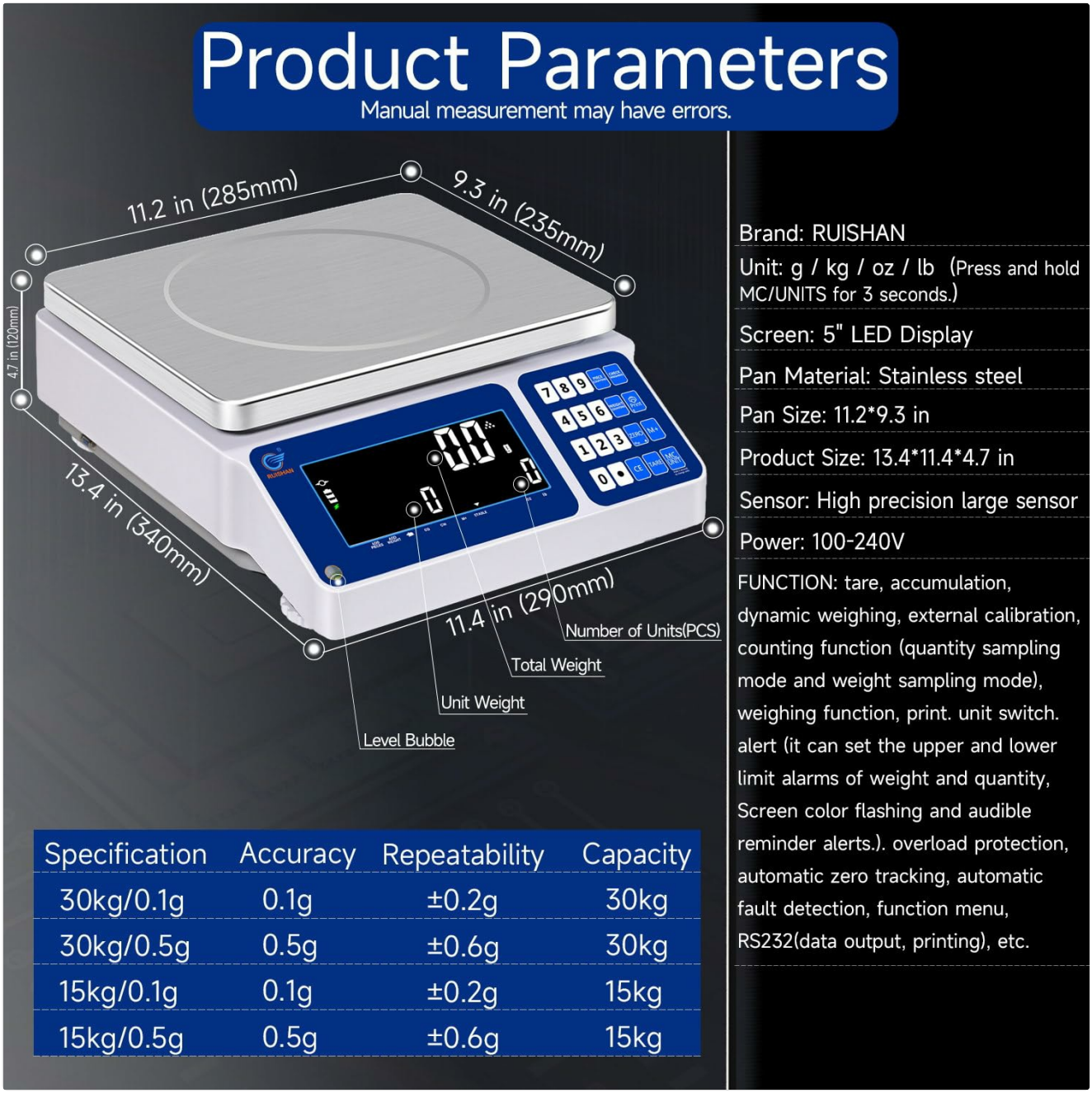


Image 7.1: Detailed product parameters and specifications.

Feature	Description
Brand	RUISHAN
Model	Industrial Counting Scale
Capacity	30 kg (66 lb)
Accuracy	0.5 g (0.0011 lb)
Display Type	5-inch LED
Pan Material	Stainless Steel
Pan Size	285 mm x 235 mm (11.2 in x 9.3 in)

Feature	Description
Product Dimensions	340 mm x 290 mm x 120 mm (13.4 in x 11.4 in x 4.7 in)
Power Supply	100-240V AC (Standard American Plug)
Special Features	RS232 Interface, Counting Check Weighing, Weight Quantity Alarm, Large Display, Tare Function, High Weight Capacity, Level Bubble, Overload Protection, Automatic Zero Tracking, Automatic Fault Detection, Function Menu, External Calibration
Optional Battery	6v4ah lead acid rechargeable battery (3.85"x2.67"x1.77") - not included

8. Warranty and Support

For warranty information, technical support, or service inquiries, please contact RUISHAN customer service through the retailer where the product was purchased or visit the official RUISHAN website. Please have your product model and purchase date available when contacting support.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question