



[Manuals.plus](#) /

› [Ohaus](#) /

› Ohaus Scout Portable Balance SPX1202 User Manual

## Ohaus SPX1202

# Ohaus Scout Portable Balance SPX1202 User Manual

Model: SPX1202

## 1. INTRODUCTION

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The Ohaus Scout Portable Balance SPX1202 is engineered for precise weighing in laboratory, industrial, and educational settings. This manual provides essential information for the proper setup, operation, and maintenance of your balance to ensure accurate and reliable performance.

The SPX1202 model features an LCD display and tactile buttons for user-friendly operation. Key features include a removable high-strength stainless steel weighing platform, integrated transportation/storage lock, slip-resistant and adjustable feet, a leveling bubble, and robust mechanical and software overload/underload protection. The sealed front panel and spill ring enhance durability by protecting internal components from spills. The balance also includes a stability indicator, auto tare function, low-battery indicator, and auto shut-off.

Multiple weighing modes are supported, such as parts counting, check weighing, percent weighing, density determination, totalization, and display hold. Optional connectivity kits for RS-232, USB host, USB device, Ethernet, and Bluetooth are available.



Figure 1: Front view of the Ohaus Scout Portable Balance SPX1202. The balance features a stainless steel weighing pan, an LCD display, and control buttons for various functions.

## 2. SETUP

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### 2.1 Unpacking

Carefully remove the balance from its packaging. Retain all packaging materials for future transport or storage. Verify that all components are present:

- Ohaus Scout Portable Balance unit
- Stainless steel weighing pan
- AC adapter (if included, or ensure 4 AA batteries are available)
- User manual (this document)

### 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.

## 2.3 Leveling the Balance

The balance must be level for accurate measurements. Use the leveling bubble located near the display to adjust the feet:

1. Adjust the two rear feet by turning them clockwise or counter-clockwise until the air bubble is centered within the red circle of the leveling indicator.
2. Ensure the balance is stable and does not rock.

## 2.4 Power Connection

The balance can be powered by an AC adapter or 4 AA batteries (not included).

- **AC Adapter:** Connect the AC adapter to the power input port on the rear of the balance and then to a suitable power outlet.
- **Batteries:** Open the battery compartment on the underside of the balance and insert 4 AA batteries, observing polarity.



Figure 2: Rear view of the Ohaus Scout Portable Balance, illustrating the power input and optional communication ports.

## 3. OPERATING INSTRUCTIONS

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### 3.1 Powering 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 empty and clean.
2. Press the **ZERO** button to set the display to zero.
3. Carefully place the item to be weighed on the center of the weighing pan.
4. Wait for the stability indicator (usually a star or circle) to appear on the display.

5. Read the stable weight value.

### 3.3 Taring

Taring allows you to subtract the weight of a container, so only the net weight of the contents is displayed.

1. Place the empty container on the weighing pan.
2. Wait for the stability indicator.
3. Press the **TARE** button. The display will show zero.
4. Add the material to be weighed into the container.
5. The display will show the net weight of the material.

### 3.4 Changing Weighing Units

The Scout balance supports multiple weighing units (g, kg, lb, lb:oz, oz, N, ct, Grn, dwt, ozt).

- Press the **UNIT** button (if available, or refer to the specific model's button layout) to cycle through available weighing units.
- Alternatively, access the menu settings to select preferred units.

### 3.5 Advanced Weighing Modes

The Ohaus Scout offers several advanced weighing applications:

- **Parts Counting:** For counting a large number of identical items.
- **Check Weighing:** To verify if a sample's weight falls within a specified target range.
- **Percent Weighing:** To measure the weight of a sample as a percentage of a reference weight.
- **Density Determination:** For calculating the density of a sample.
- **Totalization:** To sum up a series of individual weight measurements.
- **Display Hold:** To hold the displayed weight value even after the sample is removed.

Refer to the balance's on-screen menu or specific model documentation for detailed instructions on activating and using these modes.

## 4. MAINTENANCE

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### 4.1 Cleaning

- Always disconnect the balance from the power supply before cleaning.
- Clean the exterior of the balance and the stainless steel pan with a damp cloth and a mild detergent.
- Do not use abrasive cleaners, solvents, or harsh chemicals.
- Ensure no liquids enter the balance housing.
- The sealed front panel and spill ring help protect internal components from spills.

### 4.2 Calibration

The Ohaus Scout SPX1202 features external calibration. Regular calibration ensures accuracy.

1. Ensure the balance is level and stable.
2. Refer to the balance's menu or specific instructions for initiating the external calibration procedure.
3. You will need a certified calibration weight (not included) corresponding to the balance's capacity (e.g., 1200g).
4. Follow the on-screen prompts to place and remove the calibration weight.

## 4.3 Storage

When not in use for extended periods, store the balance in a clean, dry environment. Engage the integrated transportation/storage lock to protect the weighing mechanism during movement or storage.

## 5. TROUBLESHOOTING

| Problem                            | Possible Cause  | Solution  |
|------------------------------------|---|---|
| Balance does not turn on.          | No power, low batteries, or faulty power connection.                  | Check AC adapter connection. Replace batteries if using battery power. Ensure power outlet is functional.                                   |
| Unstable readings.                 | Vibrations, drafts, unlevel surface, or electromagnetic interference. | Move balance to a stable, level surface. Shield from drafts. Re-level the balance. Avoid placing near strong electrical devices.            |
| Inaccurate readings.               | Not calibrated, incorrect weighing unit, or overload.                 | Perform external calibration. Verify the correct weighing unit is selected. Ensure the load does not exceed the balance's capacity (1200g). |
| Display shows "Err" or error code. | Overload, internal error, or sensor issue.                            | Remove any load from the pan. Power cycle the balance. If the error persists, contact Ohaus customer support.                               |

## 6. SPECIFICATIONS

| Parameter                   | Value   |
|-----------------------------|---|
| Brand                       | Ohaus   |
| Model Number                | SPX1202   |
| Capacity                    | 1200 g (1.2 kg / 2.65 lbs)                                  |
| Readability                 | 0.01 g  |
| Linearity                   | 0.03 g  |
| Repeatability               | 0.01 g  |
| Stabilization Time          | 1 second  |
| Platform Material           | Stainless Steel   |
| Platform Dimensions (W x L) | 5.5 in x 6.7 in   |
| Item Weight                 | 3 Pounds  |
| Power                       | 115 / 230 VAC (AC adapter) or 4 AA batteries (not included) |
| Calibration Type            | External  |
| Weighing Units              | g, kg, lb, lb:oz, oz, N, ct, Grn, dwt, ozt                  |
| Connectivity (Optional)     | RS232, USB, Ethernet, Bluetooth                             |

## 7. WARRANTY AND SUPPORT

Ohaus products are manufactured under stringent quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official Ohaus website. In case of technical issues or for

further assistance, please contact Ohaus customer support directly.  
For service or support, please have your model number (SPX1202) and serial number ready.