

## Ohaus 30430053

# Ohaus PX224 Analytical Balance User Manual

Model: PX224 (30430053)

For accurate and repeatable weighing applications.

## 1. INTRODUCTION

The Ohaus PX224 Analytical Balance is designed to provide high accuracy and repeatability for essential weighing applications in laboratory, industrial, and education settings. This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Ohaus PX224 Analytical Balance.

The PX224 features a robust construction with a cast metal lower housing, sub-pan, and stainless steel weighing pan, ensuring durability for long-term use. It includes a second line display for additional information, a static removal bar for convenient grounding, and versatile connectivity options.



Figure 1: Front view of the Ohaus PX224 Analytical Balance, showcasing its design with the glass draftshield and control panel.

## 2. SETUP AND INSTALLATION

## 2.1 Unpacking and Inspection

Carefully remove the balance and all components from the packaging. Inspect for any signs of damage during transit. Retain the packaging for future transport or storage.

## 2.2 Component Assembly

The balance features a metal base, plastic top housing, removable stainless steel pan, and a glass draftshield. Assemble the draftshield components and place the stainless steel weighing pan onto the balance. Ensure all parts are securely fitted.

## 2.3 Power Connection

Connect the supplied AC adapter to the balance and then to a suitable power outlet. The balance is designed to operate with the provided AC adapter.

## 2.4 Leveling the Balance

Place the balance on a stable, vibration-free surface. Use the adjustable feet and the integrated level indicator (bubble level) to ensure the balance is perfectly level. Adjust the feet until the bubble is centered within the indicator.

## 2.5 Connectivity

The Ohaus PX224 includes USB and RS232 ports for easy communication with external devices such as computers or printers. Connect the appropriate cables to the balance and your device for data transfer or control.



Figure 2: The Ohaus PX224 Analytical Balance connected to a laptop, illustrating its data transfer capabilities via USB or RS232.

## 3. OPERATING INSTRUCTIONS

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### 3.1 Basic Weighing

1. Turn on the balance using the power button. Allow it to warm up for a few minutes for stable readings.
2. Ensure the weighing pan is empty and clean. Press the **Zero** button to set the display to zero.
3. Carefully place the item to be weighed onto the center of the stainless steel pan (Pan Size: 3.54").
4. Read the stable weight displayed on the 2-Line LCD with Backlight.
5. Remove the item from the pan.



Figure 3: The Ohaus PX224 Analytical Balance with a calibration weight placed on the weighing pan, demonstrating a typical weighing operation.

### 3.2 Unit Selection

The balance supports various weighing units. Press the **Unit** button to cycle through available units, including:

- Carat, Custom, Grain, Gram, Hong Kong Tael, Kilogram, Mesghal, Milligram, Momme, Newton, Ounce, Ounce Troy, Pennyweight, Pound, Singapore Tael, Taiwan Tael, Tical, Tola.

### 3.3 Semi-Automatic Internal Calibration

The PX224 features semi-automatic internal calibration. Refer to the on-screen prompts or the balance's menu system for initiating the calibration process. Regular calibration ensures the highest accuracy of your measurements.

### 3.4 Using the Static Removal Bar

The integrated static removal bar helps to dissipate static charges that can affect weighing accuracy, especially with certain materials or in dry environments. Gently pass your hand or the sample near the bar before weighing to minimize static interference.

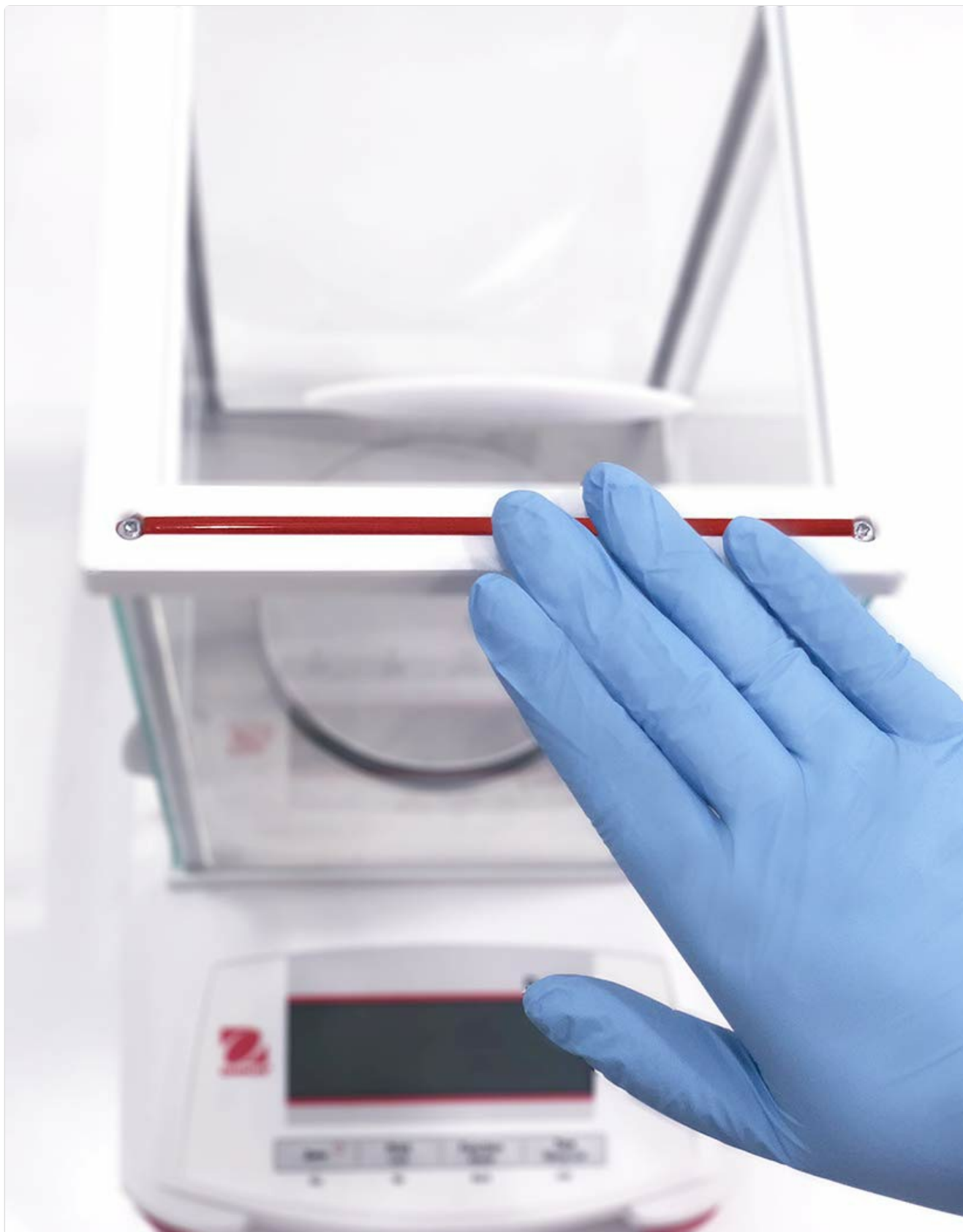


Figure 4: A gloved hand demonstrating the use of the static removal bar on the Ohaus PX224 Analytical Balance to neutralize static

charges.

## 4. MAINTENANCE

### 4.1 Cleaning

Regular cleaning is essential for maintaining the performance and longevity of your balance. Use a soft, damp cloth with a mild detergent to clean the exterior surfaces. Do not use abrasive cleaners or solvents. The stainless steel pan can be removed for thorough cleaning.

Ensure no liquids enter the balance housing or display area. Always disconnect the power adapter before cleaning.

### 4.2 Draftshield Care

The glass draftshield should be cleaned gently to avoid scratches. Use a glass cleaner if necessary, applied to a cloth first, not directly to the glass.

### 4.3 Storage

When not in use for extended periods, store the balance in a clean, dry environment, preferably in its original packaging or with the in-use cover provided.

## 5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Ohaus PX224 Analytical Balance. For problems not listed here, please contact Ohaus customer support.

| Problem                          | Possible Cause                                                 | Solution                                                                                                         |
|----------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Balance does not turn on         | No power supply; faulty AC adapter; power button issue.        | Check power connection and outlet. Ensure AC adapter is correctly connected.                                     |
| Unstable readings                | Vibrations; air currents; static electricity; unlevel balance. | Place balance on a stable surface. Close draftshield doors. Use static removal bar. Re-level the balance.        |
| "Fault Display" or error message | Overload; internal error; calibration issue.                   | Remove excess weight. Turn balance off and on. Perform internal calibration. If error persists, contact support. |
| Inaccurate readings              | Needs calibration; temperature changes; dirty pan.             | Perform internal calibration. Allow balance to acclimate to room temperature. Clean the weighing pan.            |

## 6. SPECIFICATIONS

| Feature                 | Detail                                                                                                                                                                        |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number            | 30430053                                                                                                                                                                      |
| Brand                   | Ohaus                                                                                                                                                                         |
| Weight Limit (Capacity) | 220 Grams (0.0001g readability)                                                                                                                                               |
| Display Type            | 2-Line LCD with Backlight                                                                                                                                                     |
| Pan Size                | 3.54 inches (diameter)                                                                                                                                                        |
| Power Source            | AC Adapter (Included)                                                                                                                                                         |
| Construction            | Metal base, plastic top housing, removable stainless steel pan, glass draftshield                                                                                             |
| Special Features        | Backlit Display, Auto Shut Off, Smart, High Weight Capacity, Fault Display, Integrated Weigh-Below-Hook, Security Bracket, Calibration Lock, In-Use Cover, Static Removal Bar |
| Connectivity            | USB, RS232                                                                                                                                                                    |
| Product Dimensions      | 21 x 16 x 21 inches                                                                                                                                                           |
| Product Weight          | 10 Pounds                                                                                                                                                                     |
| Date First Available    | August 14, 2018                                                                                                                                                               |

## 7. WARRANTY AND SUPPORT

### 7.1 Warranty Information

Warranty terms and conditions for the Ohaus PX224 Analytical Balance are typically provided with the product documentation at the time of purchase. Please refer to the warranty card or contact Ohaus directly for specific details regarding coverage and duration.

### 7.2 Customer Support

For technical assistance, service, or parts, please contact Ohaus customer support. Have your model number (PX224 or

30430053) and serial number ready when contacting support to expedite assistance.

You can find contact information for Ohaus on their official website or through your local distributor.

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### 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