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## Eosphorus SF-400C

# Eosphorus Science Digital Scale User Manual

Model: SF-400C

Brand: Eosphorus

## INTRODUCTION

This manual provides comprehensive instructions for the proper setup, operation, and maintenance of your Eosphorus SF-400C Science Digital Scale. This high-precision digital scale is designed for accurate weight measurements in various settings, including laboratories, schools, and home use. It features a 0.01g accuracy, a capacity of up to 600g, multiple units of measure, and a backlit LCD display for clear readings.

## WHAT'S IN THE BOX

Upon unpacking, please verify that all the following components are present:

- Eosphorus SF-400C Electronic Scale
- USB Cord
- AC/DC Adapter
- User Manual (this document)



Image: The Eosphorus SF-400C digital scale, showing the main unit, USB cord, and AC/DC adapter, representing the typical contents of the product package.

## SETUP

- Placement:** Place the scale on a firm, flat, and stable surface to ensure accurate readings. Avoid surfaces prone to vibrations or drafts.
- Power Supply:** The scale offers multiple power options:
  - **USB Cord:** Connect the included USB cord to the scale and a compatible USB power source (e.g., computer USB port, USB wall adapter).
  - **AC/DC Adapter:** Connect the included AC/DC adapter to the scale and a standard electrical outlet.
  - **Batteries:** (Batteries not included) Insert 2 x 1.5V AAA batteries into the battery compartment located on the underside of the scale, observing correct polarity.
- Windshield Installation:** The scale includes a plastic windshield to minimize the impact of air movement on measurements, especially for very small weights. Carefully place the windshield over the weighing pan.

4. **Initial Power On:** Press the "ON/OFF" button to turn on the scale. The display will show "88888" and then "0.00g" (or the last used unit) when ready for use.



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## **POWERED BY (OPTIONAL):**

- USB
- U.S. wall socket
- Batteries



Image: The digital scale with its various power supply options, including the USB cable, AC/DC adapter, and a representation of AAA batteries.

## **OPERATING INSTRUCTIONS**

### **Basic Weighing**

1. Ensure the scale is on a stable surface and powered on.
2. Wait for the display to show "0.00g" (or your desired unit).
3. Gently place the item to be weighed onto the center of the stainless steel weighing pan.
4. Read the weight displayed on the LCD screen.

### **Tare Function**

The Tare function allows you to subtract the weight of a container, so you only measure the net weight of its contents.

1. Place an empty container on the weighing pan.
2. Press the "**TARE**" button. The display will reset to "0.00g".
3. Add the items you wish to weigh into the container. The display will show only the weight of the added items.

## Hold Function

The Hold function allows you to freeze the displayed weight on the LCD screen, even after removing the item from the pan.

- While an item is on the scale and its weight is displayed, press the "**HOLD**" button.
- The displayed weight will remain on the screen until the button is pressed again or the scale is turned off.

## Multiple Units of Measure

The scale supports various units of measure. To switch between units, press the "**MODE**" button repeatedly until your desired unit is displayed.

Supported units include:

- Gram (g)
- Ounce (oz)
- Pound (lb)
- Kilogram (kg)
- Thulam (tl)
- Piece Counting (pcs)



# 6 WEIGHING MODES

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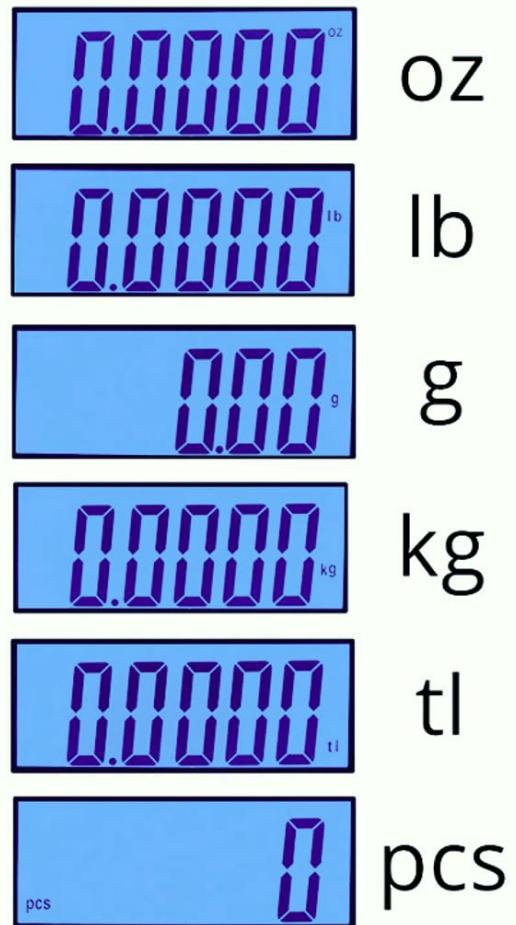


Image: The scale's display showing different measurement units, illustrating the multiple weighing modes available for selection.

### Piece Counting (PCS)

This function allows you to count a large number of small, uniform items.

1. With the scale on, press the "PCS" button.
2. Select a sample size (e.g., 10, 20, 50, 100 pieces) by pressing the "MODE" button.
3. Place the exact number of sample pieces (e.g., 10 pieces) on the weighing pan.
4. Press the "PCS" button again to confirm the sample. The display will show "PCS" and the number of pieces.
5. You can now add more items, and the scale will count them based on the sample weight.

### CALIBRATION

Your Eosphorus SF-400C scale comes pre-calibrated from the factory. However, external calibration is accessible to the user if needed to maintain accuracy over time or after significant environmental changes.

For detailed calibration instructions, please refer to the specific calibration procedure outlined in the full electronic user's manual

available on the Amazon product page in the "Product guides and documents" section. Typically, calibration requires a known weight (not included).



Image: The digital scale showing a successful calibration indicated by "PASS" on the display, with a calibration weight placed on the weighing pan.

## MAINTENANCE

- **Cleaning:** Wipe the scale surface and weighing pan with a soft, damp cloth. Do not use abrasive cleaners or immerse the scale in water. The plastic windshield can be removed and cleaned separately with mild soap and water.
- **Storage:** Store the scale in a clean, dry environment away from extreme temperatures, humidity, and direct sunlight.
- **Battery Replacement:** If using batteries, replace them when the low battery indicator appears on the display to ensure continued accurate operation.
- **Handle with Care:** Avoid dropping the scale or subjecting it to sudden shocks, as this can damage the internal sensors.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Scale does not turn on.	No power, dead batteries, or faulty power connection.	Check USB cord/AC adapter connection. If using batteries, replace them.
Inaccurate or inconsistent readings.	Unstable surface, drafts, scale not calibrated, or overloaded.	Place scale on a firm, level surface. Avoid drafts. Ensure weight is within capacity. Perform calibration if necessary.
"EEEE" or "O-Ld" displayed.	Scale is overloaded.	Remove excess weight immediately. Do not exceed the maximum capacity of 600g.
Display shows "UNST".	Unstable reading due to movement or vibration.	Ensure the scale is on a stable surface and there is no movement during weighing.

## SPECIFICATIONS

- **Model:** SF-400C
- **Capacity:** 600 Grams (0.01g accuracy)
- **Accuracy:** 0.01g / 0.0005 oz
- **Units of Measure:** Gram (g), Ounce (oz), Pound (lb), Kilogram (kg), Thulam (tl), Piece Counting (pcs)
- **Display Type:** Backlit LCD
- **Weighing Pan Size:** Square 4.7 x 4.7 inches (Stainless Steel)
- **Power Supply:** USB cord, AC/DC adapter (included), 2 x 1.5V AAA batteries (not included)
- **Special Features:** Backlit Display, High Precision, Unit Conversion, Tare Function, Hold Function, Piece Counting, Windshield
- **Package Dimensions:** 10.63 x 8.03 x 4.57 inches
- **Item Weight:** 1.98 Pounds
- **Manufacturer:** Eosphorus US

## WARRANTY AND SUPPORT

Eosphorus products are designed for reliability and performance. For any questions, technical support, or warranty inquiries, please contact Eosphorus customer service through the retailer where the product was purchased or visit the official Eosphorus store page on Amazon:

[Visit the Eosphorus Store on Amazon](#)

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Product Model: SF-400C

## Related Documents - SF-400C

	<p><a href="#">Spider Farmer Leaf Bowl Trimmer User Manual</a></p> <p>Comprehensive user manual for the Spider Farmer Leaf Bowl Trimmer, detailing product size, accessories, and assembly instructions.</p>
	<p><a href="#">Suburban Gas Furnaces Installation Instructions and Manual</a></p> <p>Comprehensive installation, operation, and maintenance manual for Suburban SF-20Q, SF-25Q, SF-30Q, SF-35Q, SF-42Q, and SF-20FQ, SF-25FQ, SF-30FQ, SF-35FQ, SF-42FQ gas furnaces designed for recreational vehicles.</p>
	<p><a href="#">Bourns SinglFuse™ SMD Fuses: Product Overview, Specifications, and Line Chart</a></p> <p>Comprehensive overview of Bourns SinglFuse™ Surface Mount Device (SMD) fuses, detailing product types, ordering information, general purpose, and automotive-grade specifications, including footprint sizes, fusing characteristics, current/voltage ratings, and operating temperatures.</p>
	<p><a href="#">Suburban Gas Furnaces User's Information Manual: Operation, Maintenance, and Safety</a></p> <p>Comprehensive user's manual for Suburban Gas Furnaces (SF, SFV, SH series) covering safe operation, installation guidelines, maintenance procedures, and troubleshooting for RV applications. Includes model numbers SF-20Q through SF-35VHFQ.</p>
	<p><a href="#">VEVOR SF-890 Shipping Scale User Manual and E-Warranty</a></p> <p>This document provides instructions, specifications, and warranty information for the VEVOR SF-890 Shipping Scale. Learn how to operate, calibrate, and care for your digital scale.</p>



## [SimpliFire SF-SPHERES Installation Instructions for Fireplace Media](#)

Comprehensive installation guide for SimpliFire SF-SPHERES fireplace media, covering models SF-SCN43, SF-SCN55, SF-TR50, SF-TR65, SF-TR78. Includes safety precautions, required tools, kit components, and visual examples.