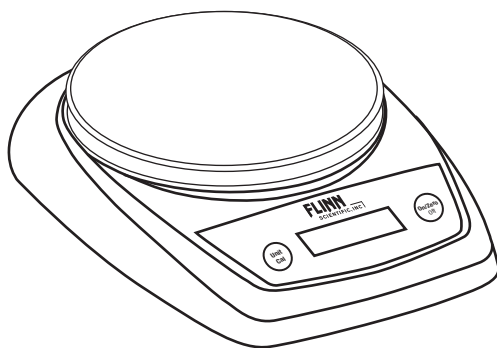




# **Flinn Economy Choice Balance Series**

## **Instruction Manual**

OB2163 and OB2164



## 1. INTRODUCTION

This manual contains installation and operation instructions for the Flinn Economy Choice Balance Series. Please read the manual completely before using the balance.

### 1.1 Safety Precautions

Please follow these safety precautions:

- Verify that the AC Adapter input voltage matches the local AC power supply.
- Use the balance only in dry locations.
- For best results, use the balance in the specified optimum operating temperature.
- Do not operate the balance in hostile or unstable environments.
- Use your balance with care, gently loading items to be weighed onto the center of the pan. Avoiding rough treatment will aid in the life of your balance.

### 1.2. General Product Features

- **Power Up Test:** When the balance is turned on, all display segments will be displayed for a few seconds, indicating that the unit is self adjusting to zero. Once the “0” is displayed, the balance is ready for use.
- **Stable Reading Indication:** A star indicator will appear in the lower left corner of the display when a stable reading has been reached.
- **Overload:** If the applied load exceeds the capacity of the balance, an “UL” will appear on the display and the load should be removed immediately. The balance will return to normal operation.
- **Tare Function:** Values can progressively be added to a sample. By pressing the ON/ZERO OFF button, the balance display returns to zero. After adding additional mass, press ON/ZERO OFF to zero the balance again. Additional mass may be added up to the capacity of the balance.
- **Negative Value:** When a load is removed from the balance, any zeroed value will be displayed as a negative number. To return to normal operation, the zeroed value can be cancelled by pressing ON/ZERO OFF button.
- **Low Battery Indication:** The display will show “Lo” when the batteries are weak and need to be replaced.
- **Auto Shut-Off:** To extend battery life, the balance will automatically turn off after approximately (4) minutes if no active weighing is occurring. This feature is active with battery operation only.

## **2. INSTALLATION**

### **2.1 Power**

Power the balance using the AC power adapter or 1 9V battery.

#### *Battery Installation*

Remove the battery cover on the bottom of the balance and place the “9V” size batteries into the compartment as indicated. Do not use excessive force or press the weighing pan. Reinsert the battery cover.

#### *AC Power Connection*

Connect the AC adapter to the receptacle at the rear of the balance. Plug the AC adapter into a properly grounded electrical outlet.

### 3. OPERATION

#### 3.1 Two Button Keypad

- **ON/ZERO OFF:** Pressing this button turns on the balance. This same button operates the zero feature when the balance is on. Press and hold this button for three seconds to turn the balance off.
- **UNIT CAL:** Press this button briefly to change the weighing unit. Press and hold this button to begin the calibration process.

#### 3.2 Calibration

For best results, calibrate the balance at regular intervals. This is especially important if the balance is in use for prolonged periods.

Calibration weights are not provided with the balance

- Press and hold the UNIT CAL button to start the calibration process. The display will show CAL.
- The calibration process can be aborted by turning the balance off.
- The unit (OB2163) will ask for the 100 g weight. Place it on the pan. The unit will read “pass.” The OB2164 unit follows the same process, but with a 1000 g mass.

The message E will appear if the calibration steps are not followed or the wrong weight was used.

### 4. ACCESSORY

AC Power adapter, Catalog No. AP7546

5. TECHNICAL DATA




5.1 Specifications

TABLE 5-1. SPECIFICATIONS.

Model	OB2163	OB2164
Capacity (g)	250	2500
Readability (g)	0.1	1
Repeatability (g)	0.1	1
Linearity (g) (+/-)	0.1	1
Weighing Units	grams, pound: ounces, troy ounces, pennyweights	
Tare Range	To capacity by subtraction	
Stabilization Time	≤ 3 seconds	
Power Requirements	AC Adapter (optional) or 1-9V battery	
Calibration	Digital with external weight	
Optimum Operating Temperature	64° to 77 °F/18° to 25 °C	
Typical Battery Life	300 hours	
Overall Size (mm/in)	210 × 175 × 55/8.25" × 6.75" × 2.125"	
Pan Size (mm/in)	125/4.75" dia	
Net Weight (kg/lb)	0.5/1.1	
Shipping Weight (k /lb)	0.8/1.5	

5.2 Compliance

Compliance to the following standards is indicated by the corresponding mark on the product.

Mark	Standard
	This product conforms to the EMC directive EN 61326-1:2013 & 61000-3-2:2014 and the Low Voltage Directive EN 61010-1:2010.
	EN 61010-1:2010
	<p><b>Disposal</b></p> <p>In conformance with the European Directive 2002/96 EC on Waste Electrical and Electronic Equipment (WEEE) this device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements.</p> <p>Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.</p> <p>If you have any questions, please contact the responsible authority or the distributor from which you purchased this device.</p> <p>Should this device be passed on to other parties (for private or professional use), the content of this regulation must also be related.</p> <p>Thank you for your contribution to environmental protection.</p>

**FCC Note**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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(800) 452-1261 • Fax (866) 452-1436

Web site: [www.flinnsci.com](http://www.flinnsci.com) • E-mail: [flinn@flinnsci.com](mailto:flinn@flinnsci.com)

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