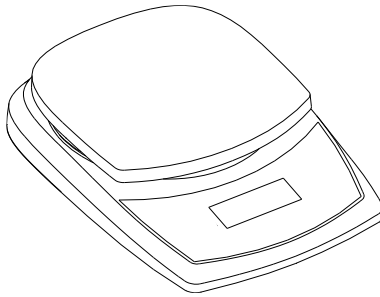




# **PACTO™ Series Balances Instruction Manual**





## 1. INTRODUCTION

This manual contains installation and operation instructions for the portable electronic scales. Please read the manual completely before using the scale.

### 1.1 Safety Precautions

Please follow these safety precautions:

- Verify that the AC Adapter input voltage matches the local AC power supply.
- Use the scale only in dry locations.
- For best results, use the scale in the specified optimum operating temperature.
- Do not operate the scale in hostile or unstable environments.
- Use your scale with care, gently loading items to be weighed onto the center of the pan. Avoiding rough treatment will aid in the life of your scale.
- Indoor use
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

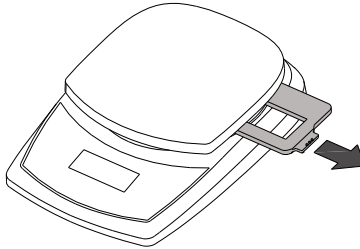
### 1.2. General Product Features

- **Power Up test:** When the scale is turned on, all display segments will be displayed for a few seconds, indicating that the unit is self adjusting to zero. Once the “o” is displayed, the scale 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 scale, an “E” will appear on the display and the load should be removed immediately. The scale will return to normal operation.
- **Tare Function:** Values can progressively be added to a sample. By pressing the RIGHT button, the scale display returns to zero. After adding additional mass, press RIGHT button to zero the scale again. Additional mass may be added up to the capacity of the scale.
- **Negative Value:** When a load is removed from the scale, any zeroed value will be displayed as a negative number. To return to normal operation, the zeroed value can be cancelled by pressing RIGHT 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 scale 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 Transportation Protection (0.1g model only)

Remove the plastic transportation protective insert for use. Save the plastic insert to ensure safe transport.



### 2.2 Power

Power the scale using the AC power adapter (not included) or 3 AA batteries.

#### Battery Installation

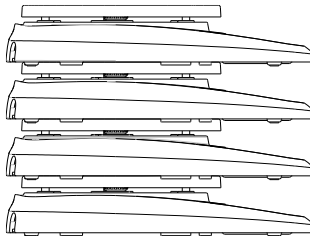
Remove the battery cover on the bottom of the scale and place the 3 “AA” size batteries into the compartment as indicated. Do not use excessive force or press the weighing pan. Re-insert the battery cover.

#### AC Power Connection

Connect the AC adapter (not included) to the receptacle at the rear of the scale. Plug the AC adapter into a properly grounded electrical outlet.

The scale base allows for the efficient stacking of one scale on top of another.

**Note:** do not stack more that 4 scales on top of each other.



## 3. OPERATION

### 3.1 Two Button Keypad

- **RIGHT button:** Pressing this button turns on the scale. This same button operates the zero feature when the scale is on. Press and hold this button for three seconds to turn the scale off.

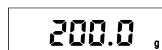
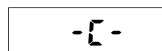
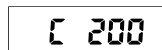
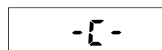
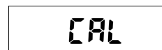
- LEFT button: Press this button briefly to change the weighing unit. Press and hold this button to begin the calibration process.

### 3.2 Calibration

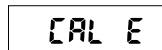
For best results calibrate the scale at regular intervals. This is especially important if the scale is in use for prolonged periods.

Calibration weights are not provided with the scale

- Press and hold the LEFT button to start the calibration process. The display will show CAL.
- The calibration process can be aborted by turning the scale off.
- Press the RIGHT button to capture 0. The display shows -C- while the scale stores the zero load signal.
- The display will show C xxx where xxx is the calibration weight in grams.
- Place the appropriate calibration weight on the platform.
- Press the RIGHT button.
- The display shows -C- while the scale stores the calibration point signal.
- After calibration, the display returns to the normal weighing mode.



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



## 4. SERVICE INFORMATION

If the troubleshooting section does not resolve your problem, contact Scientific Laboratory Supplies.

## 5. TECHNICAL DATA



### 5.1 Specifications

TABLE 5-1. SPECIFICATIONS.

Model	501	2000
Capacity (g)	500	2000
Readability (g)	0.1	1
Repeatability (Std. Dev.) (g)	0.1	1
Linearity (g)	0.1	1
Span Calibration Mass	500 g	1 kg
Stabilization Time (s)	2	2
Construction	ABS housing & pan	
Calibration	User-selectable external span / Digital with external weight	
Tare Range	Full capacity by subtraction	
Weighing Units	g, oz	
Application Modes	Weighing	
Power Requirement	3 AA batteries (included) or AC adapter (not included)	
Typical Battery Life	300 hours	
Operation Temperature Range	5°C (41°F) to 40°C (104°F) at 10% to 80% relative humidity, non-condensing	
Specified Temperature Range	18°C (64°F) to 25°C (77°F) at 10% to 80% relative humidity, non-condensing	
Storage Conditions	-20°C (-4°F) to 55°C (131°F) at 10% to 90% relative humidity, non-condensing	
Display Type	Liquid crystal display (LCD)	
Display Size	15 mm / 0.6 in digits	
Pan Size (W x D)	5 x 5.2 in / 125 x 132 mm	
Balance Dimensions (W x D x H)	5.5 x 8.1 x 1.6 in / 140 x 205 x 41 mm	
Shipping Dimensions (W x D x H)	6.7 x 9.3 x 2.2 in / 170 x 235 x 55 mm	
Net Weight	0.4 kg / 0.9 lb	
Shipping Weight	0.6 kg / 1.3 lb	

**5.2 Compliance**

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

Mark	Standard
	This product complies with the EU Directives 2011/65/EU (RoHS), 2014/30/EU (EMC), 2014/35/EU (LVD) and 2014/31/EU (NAWI). The EU Declaration of Conformity is available from Scientific Laboratory Supplies.
	This product complies with the EU Directive 2012/19/EU (WEEE). Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.

**LIMITED WARRANTY**

Scientific Laboratory Supplies products are warranted against defects in materials and workmanship from the date of delivery through the duration of the warranty period. During the warranty period Scientific Laboratory Supplies will repair, or, at its option, replace any component(s) that proves to be defective at no charge, provided that the product is returned, freight prepaid, to Scientific Laboratory Supplies.

This warranty does not apply if the product has been damaged by accident or misuse, exposed to radioactive or corrosive materials, has foreign material penetrating to the inside of the product, or as a result of service or modification by other than Scientific Laboratory Supplies. In lieu of a properly returned warranty registration card, the warranty period shall begin on the date of shipment to the authorized dealer. No other express or implied warranty is given by T Scientific Laboratory Supplies. Scientific Laboratory Supplies shall not be liable for any consequential damages.

As warranty legislation differs from state to state and country to country, please contact Scientific Laboratory Supplies for further details.







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