

DETECTO®



MODEL PS30 DIGITAL PORTION SCALE OWNER'S MANUAL

INTRODUCTION

Thank you for purchasing our DETECTO Model PS30 Digital Portion Scale. This manual will guide you through the installation, and operation of your scale. Please read it thoroughly before attempting to operate this scale and keep it handy for future reference.

FCC COMPLIANCE STATEMENT

This equipment generates, uses, and can radiate radio frequency, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been designed within the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference in which case the user will be responsible for taking whatever measures necessary to correct the interference.

You may find the booklet "How to Identify and Resolve Radio-TV Interference Problems" prepared by the Federal Communications Commission helpful. It is available from the U.S. Government Printing Office, Washington, D.C. 20402. Request stock No. 001-000-00315-4.

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DISCLAIMER

While every precaution has been taken in the preparation of this manual, the Seller assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained herein. All instructions and diagrams have been checked for accuracy and ease of application; however, success and safety in working with tools depend to a great extent upon individual accuracy, skill, and caution. For this reason, the Seller is not able to guarantee the result of any procedure contained herein. Nor can they assume responsibility for any damage to property or injury to persons occasioned from the procedures. Persons engaging in the procedures do so entirely at their own risk.

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SPECIFICATIONS

Weight Display:	1.0 inch backlit LCD, 5 Digit with fraction
Dimensions:	11.22" W x 10.03" D x 3.54" H (285 mm x 255 mm x 90 mm)
Platform Size:	9.44" W x 7.28" D (240 mm x 185 mm)
Zero:	Established on power up routine and maintained by auto-zero circuitry.
Power:	4 AA Alkaline cells OR 9-15VDC, 100 mA wall plug-in UL/CSA listed power supply
Tare:	100% of full scale capacity
Temperature:	40° to 95°F (5° to 35°C)
Humidity:	15% ~85% RH
Capacity:	0-15 lb x 0.1 oz 5-30 lb x 0.2 oz 0-6 kg x 2 g 6-15 kg x 5 g
Keys:	ON/OFF, HOLD, UNIT, TARE/BACKLIGHT
Features:	Low battery indicator, Power saving selectable timing auto shut-off

Serial Number _____
Date of Purchase _____
Purchased Form _____

RETAIN THIS INFORMATION FOR FUTURE USE

PRECAUTIONS

Before using this scale, read this manual and pay special attention to all "NOTIFICATION" symbols:



IMPORTANT



ELECTRICAL
WARNING

INSTALLATION

UNPACKING

Before beginning installation of your scale, make certain the instrument has been received in good condition. When removing the scale from its packing, inspect it for signs of damage, such as exterior dents and scratches. Keep the carton and packing material for return shipment if it should become necessary. It is the responsibility of the purchaser to file all claims for any damages or loss incurred during transit.

1. Remove the scale from the shipping carton and inspect it for any signs of damage.
2. Plug in the 9-15VDC adapter or insert four (4) AA Alkaline batteries to use the scale.
3. Place the scale on a flat-level surface, such as a table or bench.
4. The scale is now ready for use.

POWER SUPPLY

To apply power to the scale using the supplied 9-15VDC, 100 mA power supply, insert the plug from the power supply cable into the power jack on the back of the scale and then plug the power supply into the proper electrical outlet. The scale is now ready for operation.



BATTERY

The scale can use four (4) AA-size batteries (*not included*). If you wish to operate the scale from batteries, you must first obtain and install the batteries. Access is via a removable cover on the bottom of the scale.

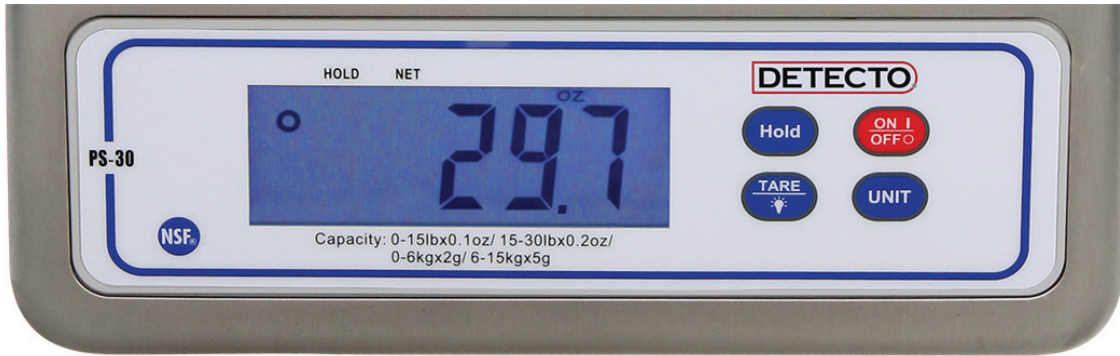
Battery Installation/Replacement

1. Turn the scale over so that the display is facing down and place it upside down on a flat level surface, such as a table or bench.
2. Locate the battery cover on the bottom of the scale and loosen two plastic captive screws.



3. Remove the battery cover (lift straight up and slide it out) exposing the battery holder.
4. If installing new batteries, proceed to step 5. If replacing batteries, remove all 4 batteries from the battery holder and then proceed to step 5.
5. Install 4 new "AA" size batteries in the battery holder, noting polarity markings as shown above.
6. After placing all 4 batteries in the holder, replace the battery cover on the scale. Slide tabs on the battery cover into cover slots, press down on the cover, and tighten two plastic captive screws loosen in step 2.
7. Turn the scale over (display facing up) and press the **ON/OFF** key.
8. If the display turns on, the batteries have been installed correctly. If not, remove the battery cover and check for one or more improperly positioned batteries.

DISPLAY ANNUNCIATORS



The annunciators are turned on to indicate that the scale display is in the mode corresponding to the annunciator label or that the status indicated by the label is active.

O

The **O** annunciator is turned on when the weight display is stable.

→O←

Indicates the scale is at center of zero.

lb

The **lb** annunciator is turned on to indicate that the displayed weight is in pounds.

oz

The **oz** annunciator is turned on to indicate that the displayed weight is in ounces.

lb/oz

Both the **lb** and **oz** annunciators are turned on to indicate that the displayed weight is in pounds and ounces.

lb/oz 1/8

The **lb/oz 1/8** annunciator is turned on to indicate that the displayed weight is in 1/8 ounce.

kg

The **kg** annunciator is turned on to indicate that the displayed weight is in kilograms.

HOLD

The **HOLD** annunciator indicates the weight display hold function is activated.

NET

Activated with the TARE function, the **NET** annunciator indicates that the displayed weight is the net weight on the scale.

LoBat (LOW BATTERY)

When the batteries are near the point they need to be replaced, a low battery indicator on the display will turn on. If the battery voltage drops too low for accurate weighing, the scale will automatically shut off and you will be unable to turn it back on. When the low battery indicator is displayed, the operator should replace the batteries or remove the batteries and plug in the 9-15VDC adapter.

KEY FUNCTIONS

HOLD

1. Press once to hold the displayed weight.
2. Press again to return the display to normal weighing mode.

ON/OFF

1. Press and release to turn on the scale.
2. Press and release to turn the scale off.

TARE

1. Press to reset the display to zero up to 100% of the scale capacity.
2. Press to confirm the setting for each menu.
3. Setting the backlight function ON or OFF.

UNIT

1. Press to change the weighing units to the alternate units of measurement (if selected during the configuration of the scale).
2. Press 6 times while holding the **ON/OFF** key to enter Configuration mode.
3. Press to select the menu in the Configuration mode.

OPERATION

TURN THE SCALE ON

Press the **ON/OFF** key to turn the scale on. The scale will display *8888* then change to the selected weighing units.

SELECT THE WEIGHING UNIT

Press the **UNIT** key to alternate between weighing units.

WEIGH

Place the item to be weighed on the scale tray. Wait a moment for the scale display to stabilize and then read the weight.

TO RE-ZERO THE WEIGHT DISPLAY

To re-ZERO (tare) the weight display, press the **TARE** key and continue. The scale will re-ZERO (tare) until the full capacity is reached.



The membrane keypad is not to be operated with pointed objects (pencils, pens, fingernails, etc). Damage to the keypad resulting from this practice will *NOT* be covered under warranty.

CONFIGURATION

The Scale has been pre-configured at the factory and should not require configuration for use in most applications. If the factory settings do not meet the requirements of your application, the following describes the steps to configure the scale.

TO BEGIN CONFIGURATION:

1. While holding the **ON/OFF** key, press the **TARE** key 3 times and then release the **ON/OFF** key.
2. The display will change to show 5.0.0, the software revision level, and then change to Unit.

Unit (WEIGHING UNITS)

To select “kg” (kilogram only) weighing units

1. With the display showing Unit, press the **TARE** key. The display will change to show “kg”.
2. Press the **TARE** key to display the kg status.
3. Press the **UNIT** key to toggle between:
Enable (display will change to On) or
Disable (display will change to OFF).
4. Press the **TARE** key and then the **UNIT** key 5 times. The display will change to Unit.
5. Proceed to *ROFF* (AUTOMATIC SHUTOFF).

To select “lb” (pounds only) weighing units:

1. With the display showing Unit, press the **TARE** key and then the **UNIT** key. The display will change to show “lb”.
2. Press the **TARE** key to display the lb status.
3. Press the **UNIT** key to toggle between:
Enable (display will change to On) or
Disable (display will change to OFF).
4. Press the **TARE** key and then the **UNIT** key 4 times. The display will change to Unit.
5. Proceed to *ROFF* (AUTOMATIC SHUTOFF).

To select “OZ” (ounce only) weighing units

1. With the display showing Unit, press the **TARE** key and then the **UNIT** key 2 times. The display will change to show “OZ”.
2. Press the **TARE** key to display the OZ status.
3. Press the **UNIT** key to toggle between:
Enable (display will change to On) or
Disable (display will change to OFF).
4. Press the **TARE** key and then the **UNIT** key 3 times. The display will change to Unit.
5. Proceed to *ROFF* (AUTOMATIC SHUTOFF).

CONFIGURATION, CONT.

To select “lb/OZ” (pounds/ounce) weighing units:

1. With the display showing `Unit`, press the **TARE** key and then the **UNIT** key 3 times. The display will change to show both “lb” and “OZ”.
2. Press the **TARE** key to display the lb/OZ status.
3. Press the **UNIT** key to toggle between:
 - Enable (display will change to `On`) or
 - Disable (display will change to `OFF`).
4. Press the **TARE** key and then the **UNIT** key 2 times. The display will change to `Unit`.
5. Proceed to *ROFF* (AUTOMATIC SHUTOFF).

To select “lb/OZ 1/8” (pounds/ounce 1/8) weighing units:

1. With the display showing `Unit`, press the **TARE** key and then the **UNIT** key 4 times. The display will change to show both “lb”, “OZ” and “1/8”.
2. Press the **TARE** key to display lb/OZ 1/8 status.
3. Press the **UNIT** key to toggle between:
 - Enable (display will change to `On`) or
 - Disable (display will change to `OFF`).
4. Press the **TARE** key and then the **UNIT** key. The display will change to `Unit`.
5. Proceed to *ROFF* (AUTOMATIC SHUTOFF).

ROFF (AUTOMATIC SHUTOFF)

1. With the display showing `Unit`, press the **UNIT** key. The display will change to show `ROFF`.
2. Press the **TARE** key to begin selection of the automatic shut-off time (in seconds). The display will change to show `120 S`.
3. Press the **UNIT** key to toggle through the selections;
 - `120 S`, `180 S`, `240 S`, `300 S`, or `OFF`.
4. When the desired time is displayed, press the **TARE** key. The display will change to show `ROFF`.
5. Proceed to *CRP* (CAPACITY).

CRP (CAPACITY)

1. With the display showing `ROFF`, press the **UNIT** key. The display will change to show `CRP`.
2. Press the **TARE** key to begin selection of the scale capacity. The display will change to show `15.0059`.
3. Press the **UNIT** key to toggle through the selections;
 - `1002g`, `3001g`, `5005g`, `5001g`,
 - `10005kg`, `15005kg`, `3001kg`,
 - `50.1kg`, `120.1kg`, `150.1kg`, `180.1kg`.
4. When the desired capacity is displayed, press the **TARE** key. The display will change to show `CRP`.
5. Proceed to *bUZZ* (BUZZER).

CONFIGURATION, CONT.

bUrr *9bUEr0*.

1. With the display showing **[ARP]**, press the **UNIT** key. The display will change to show **bUrr**.
2. Press the **TARE** key to display the ON
3. Press the **UNIT** key to toggle between:
Enable (display will change to **[On]**) or
Disable (display will change to **[OFF]**).
4. When the desired setting is displayed, press the **TARE** key. The display will change to show **bUrr**.
5. Proceed to *RrRnG* **9MULT-RANGE0**.

RrRnG **(MULTI-RANGE)**

1. With the display showing **[ARP]**, press the **UNIT** key. The display will change to show **RrRnG**.
2. Press the **TARE** key to display the ON status.
3. Press the **UNIT** key to toggle between:
Enable (display will change to **[On]**) or
Disable (display will change to **[OFF]**).
4. Press the **TARE** key. The display will change to **RrRnG**.
5. Proceed to *HrRnG* (HOLD RANGE).

HrRnG **(HOLD RANGE)**

1. With the display showing **RrRnG**, press the **UNIT** key. The display will change to show **HrRnG**.
2. Press the **TARE** key to display the 1d status.
3. Press the **UNIT** key to toggle through the selections;
1d, 5d, 10d, 15d.
4. When the desired setting is displayed, press the **TARE** key. The display will change to show **HrRnG**.
5. Proceed to **[End]**(END).

End **(CONFIGURATION COMPLETE)**

1. With the display showing **HrRnG**, press the **UNIT** key. The display will change to show **[End]**.
2. Press the **TARE** key to save the settings.
3. The scale will reset and return to the normal operating mode.
4. Configuration is complete.

DISPLAY MESSAGES

DISPLAY	MEANING
<i>LobAt</i>	Low battery indication. Replace batteries or use the AC adapter.
<i>Err</i>	Total load exceeds maximum scale capacity.
<i>ErrL</i>	The load cell signal is too low.

CARE AND MAINTENANCE

The heart of the PS30 Digital Portion Scale is a precision load cell located in the center of the scale base. It will provide accurate operation indefinitely if protected against overload of scale capacity, dropping items on the scale, or other extreme shocks.

- **DO NOT** submerge the scale in water, pour or spray water directly on it.
- **DO NOT** use acetone, thinner, or other volatile solvents for cleaning.
- **DO NOT** expose the scale to direct sunlight or temperature extremes.
- **DO NOT** place the scale in front of heating/cooling vents.
- **DO** clean the scale with a damp soft cloth and mild non-abrasive detergent.
- **DO** remove power before cleaning with a damp cloth.
- **DO** provide clean AC power and adequate protection against lightning damage.
- **DO** keep the surroundings clear to provide clean and adequate air circulation.

STATEMENT OF LIMITED WARRANTY

DETECTO warrants its equipment to be free from defects in material and workmanship as follows: DETECTO warrants to the original purchaser only that it will repair or replace any part of equipment which is defective in material or workmanship for a period of **two (2) years from date of shipment**. DETECTO shall be the sole judge of what constitutes a defect.

During the **first ninety (90) days** DETECTO may choose to replace the product at no charge to the buyer upon inspection of the returned item.

After the first ninety (90) days, upon inspection of the returned item, DETECTO will repair or replace it with a remanufactured product. The customer is responsible for paying for the freight both ways.

This warranty does not apply to peripheral equipment not manufactured by DETECTO; this equipment will be covered by certain manufacturer's warranty only.

This warranty does not include replacement of expendable or consumable parts. This does not apply to any item which has deteriorated or damaged due to wear, accident, misuse, abuse, improper line voltage, overloading, theft, lightning, fire, water or acts of God, or due to extended storage or exposure while in purchaser's possession. This warranty does not apply to maintenance service. Purchased parts will have a ninety (90) day repair or replacement warranty only.

DETECTO may require the product to be returned to the factory; item(s) must be properly packed and shipping charges prepaid. A return authorization number must be obtained for all returns and marked on the outside of all returned packages. DETECTO accepts no responsibility for items lost or damaged in transit.

Conditions Which Void Limited Warranty

This warranty shall not apply to equipment which:

- A.) Has been tampered with, defaced, mishandled, or has had repairs and modifications not authorized by DETECTO.
- B.) Has had serial number altered, defaced, or removed.
- C.) Has not been properly grounded according to DETECTO's recommended procedure.

Freight Carrier Damage

Claims for equipment damaged in transit must be referred to the freight carrier in accordance with freight carrier regulations.

This warranty sets forth the extent of our liability for breach of any warranty or deficiency in connection with the sale or use of the product. DETECTO will not be liable for consequential damages of any nature, including but not limited to, loss of profit, delays, or expenses, whether based on tort or contract. DETECTO reserves the right to incorporate improvements in material and design without notice and is not obligated to incorporate improvements in equipment previously manufactured.

The foregoing is in lieu of all other warranties, express or implied including any warranty that extends beyond the description of the product including any warranty of merchantability or fitness for a particular purpose. This warranty covers only those DETECTO products installed in the forty-eight (48) contiguous continental United States.



Ph. (800) 641-2008
E-mail: detecto@cardet.com
102 E. Daugherty
Webb City, MO 64870

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DETECTO
102 E. Daugherty, Webb City, MO 64870 USA
Ph: 417-673-4631 or 1-800-641-2008
Fax: 417-673-2153
www.Detecto.com
Technical Support: 1-866-254-8261
E-mail: tech@cardet.com