



**DIGITAL PHYSICIAN  
Waist-High Scale  
Models 8430, 8431 & 8437  
Operating Instructions**



8525-M041-O1 Rev H  
09/04

CARDINAL SCALE MFG. CO.  
PO BOX 151 • WEBB CITY, MO 64870  
PH (417) 673-4631 • FAX (417) 673-5001  
Web Site - <http://www.detectoscale.com>

Printed in USA



# DIGITAL PHYSICIAN SCALE

Thank you for purchasing our model 8430/8431/8437 Digital Physician Scale. It has been manufactured with quality and reliability at our factory in Webb City, MO USA. Your scale has been tested before leaving our factory to insure accuracy and dependability for years to come.

This manual is provided to guide you through the operation of your scale. Please read it thoroughly before attempting to operate your scale and keep it handy for future reference.

## FCC COMPLIANCE STATEMENT

**WARNING!** 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 tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules, which are designed 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 to take 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. Stock No. 001-000-00315-4.

All rights reserved. Reproduction or use, without expressed written permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. 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 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 the 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 the procedures do so entirely at their own risk.

## SPECIFICATIONS

|                          |   |
|--------------------------|---|
| Capacity .....           | 400 lb x .2 lb / 180 kg x .1 kg (selectable)                    |
| Platform Size .....      | 10.5" x 14.5" / 267 mm x 368 mm                                 |
| Shipping Weight .....    | 34 lb / 15.4 kg   |
| Scale Height .....       | 37.5" / 953 mm  |
| Height Rod Measures .... | 30" to 78" / 76 cm to 198 cm                                    |
| Display .....            | 0.7" / 17.8 mm high-contrast LCD                                |
| Power .....              | 6 "C" size alkaline batteries or optional AC adapter            |
| Keys .....               | On/Off, Zero, Lb/Kg, Hold/Release<br>Body Mass Index calculator |

## UNPACKING INSTRUCTIONS

- Remove scale from carton by lifting up with equal force from column and platform base of the scale.
- Check for any damage incurred in shipping. If scale has been damaged, place a claim with the carrier. Use the original carton and shipping material to return the scale.
- Remove all plastic wrapping, foam fillers and cardboard material from the scale.
- Remove and unpack the power supply and cord, if the scale was ordered with this option.

## CARE and CLEANING of SCALE

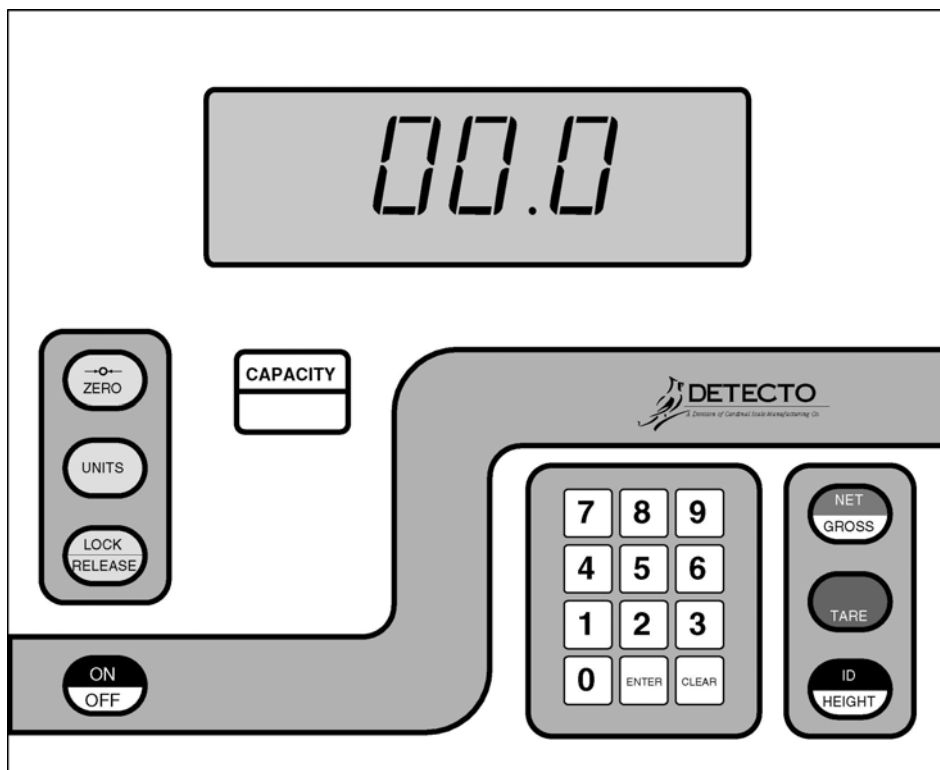
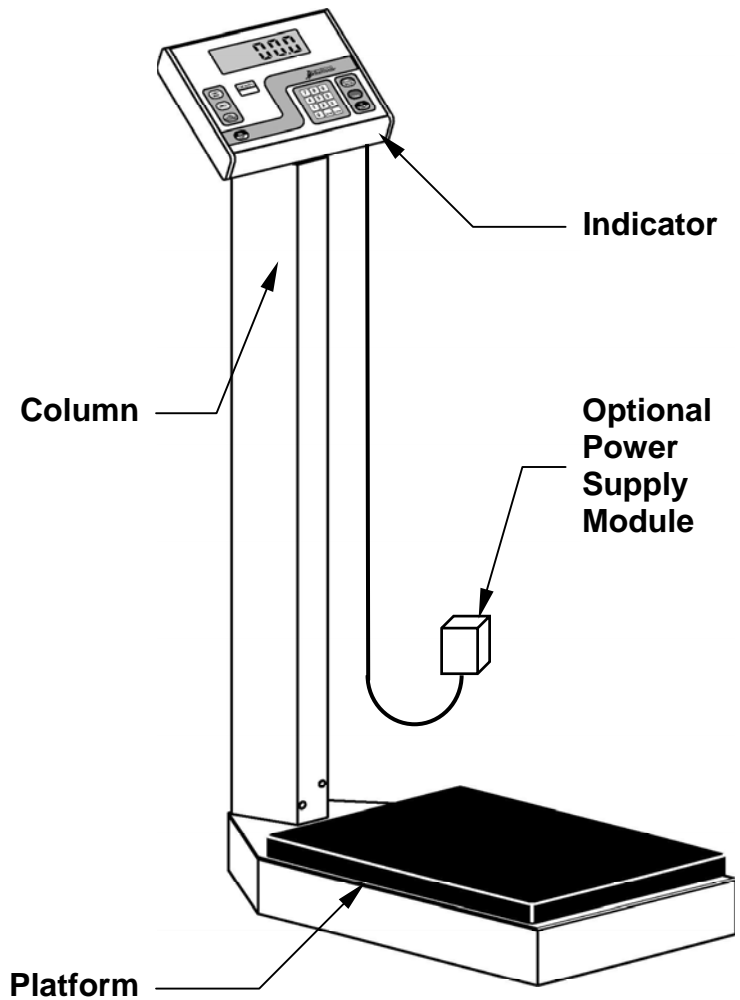
- DO NOT subject the platform to sudden shocks.
- DO NOT spray water directly on the display head.
- DO avoid areas where the scale might be exposed to moisture.
- DO NOT use abrasive cleaners on this instrument.
- DO NOT use acetone or other volatile solvents for cleaning.
- DO clean the scale using a damp soft cloth and mild detergent.

## ERROR and STATUS DISPLAYS

| Display | Meaning   |
|---------|---|
| -Err-   | General error, invalid keypad entry was attempted.  |
| -OF-    | Attempting to display a negative number greater than -9,999 or a positive number greater than 99,999                                |
| -LRL-   | Indicates an attempt to zero a weight outside the scale zero range. (See Four Percent Zero Tracking Range Limit).                   |
| -UnS-   | Motion is present when the indicator is attempting to perform one of the following operations: Power Up Zero or Zero Weight Display |
| AdErr   | An analog to digital convertor communication error has been detected. Consult the scale service representative.                     |
| CALib   | Indicates improper stored calibration data, calibration is necessary.   |
| ErrA    | The analog to digital sample is invalid.  |
| ErrAL   | The load cell input is below the range of the indicator.  |
| ErrAH   | The load cell input is above the range of the indicator.  |
| EE Err  | NOVRAM failure. Consult the scale service representative.   |
| OCAP    | Scale weight exceeds scale capacity   |
| OFF     | Displayed to indicate the indicator is turning off.   |

# OPERATING INSTRUCTIONS

1. Install six (6) "C" size batteries or if ordered with the scale, plug the power supply module into an appropriate power receptacle. Plug the small connector end of the power supply cord into the power jack located in the bottom right corner at the back of the indicator.
2. Set the scale on any hard, level, flat surface or low-cut carpet.
3. With no weight on the scale platform, press the [ **ON/OFF** ] key. After a second or so the display should indicate a zero weight with the ZERO annunciator turned on. If the display does not indicate zero, press the [ **ZERO** ] key to zero the weight display.
4. Step on the scale and remain motionless for several seconds until the scale displays your weight.
5. To re-zero the scale, remove all weight from the platform and press the [ **ZERO** ] key.
6. For more information, see the 758C Series Operation Manual (8555-M210-O1).



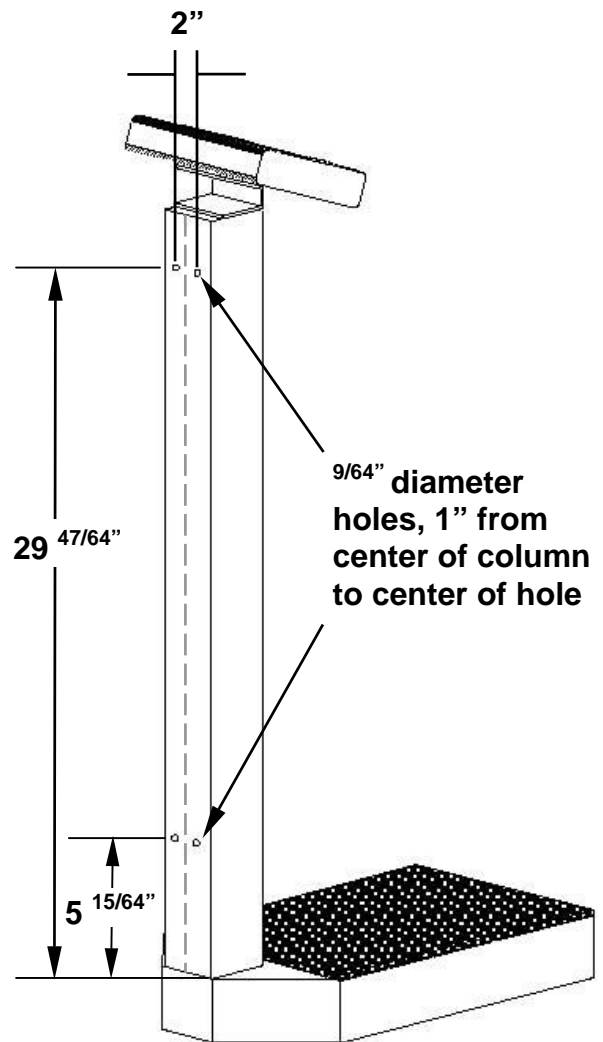
758C Keypad

# HEIGHT ROD INSTRUCTIONS

## Height Rod Hole Location

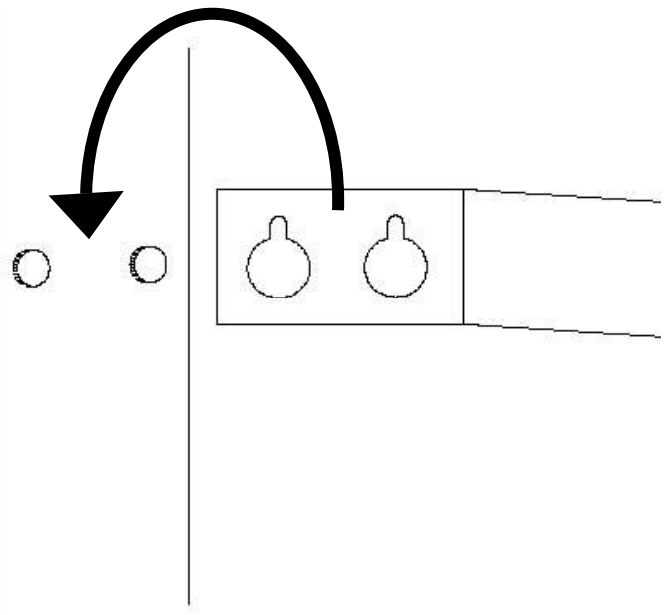
- Please check Height Rod hole locations before installing Height Rod.
- **Some models may require holes to be drilled.**
- Please follow the measurements for drilling holes if necessary.
- After holes have been drilled, please follow installation instructions.

**IMPORTANT!**  
Measure from bottom of column, not floor or scale base.



## Optional Height Rod Installation

1. Remove the cardboard insert from the height rod.
2. If not already installed, insert the four hex head screws from the hardware pack into the holes in the front of the column and tighten them with the included wrench until the hex heads are 1/8" from the column.
3. Place both height rod brackets over the four pre-installed hex head screws and pull down.
4. Use the included wrench to tighten the hex head screws. Do not overtighten the screws.



# HEIGHT ROD INSTRUCTIONS, Cont.

## Height Rod Operating Guide

1. Before the person steps onto the scale platform, the spoon should be rotated to the horizontal position, and raised well above the person's apparent height.
2. The person may now step onto the scale platform. The spoon should be held horizontal and above the person's head.
3. Carefully lower the spoon, while keeping it horizontal, until it rests gently upon the top of the person's head. If the person is shorter than 3' 4" (101.5 cm), push the latch to the right, while simultaneously pushing down on the spoon, until the spoon rests horizontally upon the top of the person's head.
4. Read the height of the person as follows:

If the back of the spoon points to the outer height rod, then it points to the correct height.

If the back of the spoon points to the inner height rod, then the correct height is read at the top of the outer height rod (see "Read" arrow on the outer height rod).

5. While holding the spoon horizontally, raise the spoon above the person's head. The person may now step off of the scale platform. Hold the spoon horizontal until the person is clear of the height rod.
6. Rotate the spoon back to the vertical position and adjust the height rod back to the rest position (i.e. the spoon should be locked in place within the inner height rod and the inner rod should be at its lowest position).

