

750EU WEIGHT INDICATOR With Body Mass Index Features Owner's Manual



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Serial Number Date of Purchase Purchased From	_ _ _
	_
RETAIN THIS INFORMATION FOR FUTURE USE	_

PRECAUTIONS

Before using this indicator, read this manual and pay special attention to all "WARNING" symbols:



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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 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 largely 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 in the procedures do so entirely at their own risk.

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 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. Request stock No. 001-000-00315-4.

PROPER DISPOSAL

When this device reaches the end of its useful life, it must be properly disposed of. It must not be disposed of as unsorted municipal waste. Within the European Union, this device should be returned to the distributor from where it was purchased for proper disposal. This is in accordance with EU Directive 2002/96/EC. Within North America, the device should be disposed of in accordance with the local laws regarding the disposal of waste electrical and electronic equipment.

It is everyone's responsibility to help maintain the environment and to reduce the effects of hazardous substances contained in electrical and electronic equipment on human health. Please do your part by making certain that this device is properly disposed of. The symbol shown to the right indicates that this device must not be disposed of in unsorted municipal waste programs.



Ι

CAUTION



CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

ATTENTION: RISQUE D'EXPLOSION SI LA BATTERIES EST REMPLACE'E PAR UN TYPE INCORRECT. REJETEZ LES BATTERIES UTILISE'ES SELON LES INSTRUCTIONS.

INTRODUCTION

Thank you for purchasing our Model 750EU Weight Indicator. It has been manufactured with quality and reliability and has been tested before leaving our factory to insure accuracy and dependability for years to come.

This manual is provided to guide you through installation, operation and maintenance of your indicator. Please read it thoroughly before attempting to install or operate your 750EU and keep it handy for future reference.

SPECIFICATIONS

Power Requirements 6 "AA" Ni-Cad or NiMH batteries (not included) OR an

optional 110 to 240 VAC 50/60Hz 12 VDC 1A wall plug-in UL/CSA listed AC power adapter (Cardinal part number

6800-1045).

Operating Temperature 14 to 104 °F (-10 to +40 °C)

Display Six digit, seven segment, 0.7 inch high LCD

Sensitivity 0 to 2.4 mV/V

Signal Input Range 0 to 12mV max.

Transducer Excitation 5.0 VDC

Resolution 2,500 divisions

Capacities up to 10,000 divisions noncommercial

Weighing Units Pounds, kilograms, pounds/kilograms and

kilograms/pounds

Keyboard Membrane type with 5 keys and 4 directional arrows

Enclosure Size 6.125" W x 6.75" H x 1.75" D (16 cm x 17 cm x 4 cm)

Construction Painted Steel

Standard Features:

Metric Conversion

• Selectable Sleep-Mode

Auto Shut-Off Feature

Selectable Filtering

Optional Features:

Optional 12VDC AC Power Adapter

EUROPEAN DECLARATION OF CONFORMITY

Manufacturer: Cardinal Scale Manufacturing Company

PO Box 151

203 East Daugherty

Webb City, Missouri 64870 USA

Telephone No. 417 673 4631 Fax No. 417 673 5001

Product: Non-automatic Weight Indicating Instrument

Model Number 750

Serial Number EXXXYY-ZZZ where XXX = day of year

YY = last two digits of year ZZZ = sequential number

The undersigned hereby declares, on behalf of Cardinal Scale Manufacturing Company of Webb City, Missouri, that the above-referenced product, to which this declaration relates, is in conformity with the provisions of:

European Standard EN 45501: 1992 and equivalent International Recommendation OIML R76, edition 1992 Test Certificate Number DK 0199-R76-07.01 Report No. DANAK-199836

Council Directive 2006/95/EC Low Voltage Directive

Council Directive 90/384/EEC (20 June, 1990) on the Harmonization Of the Laws of Member States relating to non-automatic weighing Systems as amended by:
Council Directive 93/68/EEC (22 July, 1993)

Council Directive 89/336/EEC (3 May, 1989) on Electromagnetic Compatibility EN 55022:1998 Class B (CISPR 22:1997, Class B) EN 61000-3-2:2000 EN 61000-3-3:1995+A1

The Technical Construction File required by this Directive is maintained at the corporate headquarters of Cardinal Scale Manufacturing Company, 203 East Daugherty, Webb City, Missouri.

Mark Levels

Quality Assurance Administrator

SITE PREPARATION REQUIREMENTS

The Model 750EU Weight Indicator is a precision weight indicating instrument. As with any precision instrument, it requires an acceptable environment to operate at peak performance and reliability. This section is provided to assist you in obtaining such an environment.

Environmental

The Model 750EU Weight Indicator meets or exceeds all certification requirements within a temperature range of 14 to 104 °F (-10 to +40 °C).

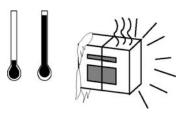
In order to keep cooling requirements to a minimum, the indicator should be placed out of direct sunlight and to provide adequate air circulation, keep the area around the indicator clear.





Do not place the indicator directly in front of a heating or cooling vent. Such a location will subject the indicator to sudden temperature changes, which may result in unstable weight readings.





Insure that the indicator has good, clean AC power and is properly grounded. In areas subject to lightning strikes, additional protection to minimize lightning damage, such as surge suppressors, should be installed.





Electrical Power

The 750EU indicator has been designed to operate from a 110 to 240 VAC 50/60Hz 12 VDC 1A wall plug-in UL/CSA listed AC power adapter (Cardinal part number 6800-1045). Note that a special order is <u>not</u> required for operation at 240 VAC.

- The socket-outlet supplying power to the indicator should be on a separate circuit from the distribution panel and dedicated to the exclusive use of the indicator.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- The wiring should conform to national and local electrical codes and ordinances and should be approved by the local inspector to assure compliance.
- On installations requiring 240 VAC power, it is the responsibility of the customer to have a qualified electrician install the proper power adapter plug that conforms to national electrical codes and local codes and ordinances.

INSTALLATION

Unpacking

Carefully remove indicator from shipping carton and inspect it for any damage that may have taken place during shipment. Keep carton and packing material for return shipment if it should become necessary. The purchaser is responsible for filing all claims for any damages or loss incurred during transit.

Should your indicator come already installed on a scale, the following installation information does not apply to you.

Mounting

To install the indicator on the bracket, place the screw heads on the back of the indicator into the large end of the slotted holes in the bracket. Pull down to secure the indicator. The spring plunger will lock the indicator to the bracket. See Figures No. 1, 2 and 3.



Figure No. 3

Interconnections

The load cell input and power connections are made at the bottom rear panel of the indicator. Refer to Figure No. 1 for the rear panel layout.

INSTALLATION, CONT.

Optional AC Power Adapter

To power the 750EU using the optional 12 VDC wall plug-in AC power adapter, connect the plug from the adapter into the power jack on the back of the indicator and then plug the power adapter into the proper electrical outlet. Refer to Figure 1. On models requiring 240 VAC, it is the customer's responsibility to obtain the correct power adapter plug.

Batteries

The 750EU indicator can use 6 "AA" size Ni-Cad or NiMH batteries (*not included*). You must first obtain and install batteries before operations can begin. Batteries are contained in a battery holder inside the indicator. Access is via a removable panel on the back of the indicator.



IMPORTANT! The 750EU can be operated from Ni-Cad or NiMH batteries. All six (6) batteries must be of the same type. They must all be all Ni-Cad or all NiMH. **DO NOT** mix Ni-Cad and NiMH batteries.



IMPORTANT! The AC power adapter is also used to recharge the batteries, when the 750EU is operated from Ni-Cad or NiMH batteries. Make sure the n IERd setup option is enabled (set to 1). Refer to Setup and Calibration or Setup Review.

CAUTION



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Battery Status

The 750EU indicator will operate for up to 100 hours on fully charged Ni-Cad or NiMH batteries depending on the condition of the batteries (from new to about 500 recharges). The battery bar graph on the display indicates the battery capacity in 4 steps:



- 4 segments the full battery capacity is available,
- 3 segments the battery is at 75% of capacity,
- 2 segments the battery is at 50% of capacity,
- 1 segment: the battery is at 25% capacity.

When the battery voltage drops too low for accurate weighing, the indicator will show $L \circ L$ and then shut off. You will be unable to turn the indicator back on until the batteries have been replaced or the AC power adapter is connected to the indicator to operate it and recharge the batteries.

Battery Charging

To recharge the Ni-Cad or NiMH batteries, the AC power adapter must be connected to a power outlet and plugged into the indicator. It will take approximately 8 to 10 hours to fully recharge the batteries in the display. Charging the batteries for more than 10 hours *will not* damage them. **NOTE!** The indicator may be operated while the batteries are charging.

INSTALLATION, CONT.

Battery Installation/Replacement

To install or remove the batteries, the following steps should be followed:

- 1. Make sure the AC power adapter is unplugged.
- 2. Remove the indicator from the scale mounting bracket. (Referring to Figure No. 3, pull the spring plunger down and slide the indicator away from the bracket).
- 3. Turn the indicator over so that the display is facing away from you.
- 4. Locate the rectangular panel on the back of the indicator.
- 5. To install or replace the batteries, first remove the battery holder cover by pushing in on the tab and lifting it up. Refer to Figure No. 4.
- 6. If installing new batteries, proceed to step 7. If replacing the batteries, remove all 6 batteries from the battery holder and then proceed to step 7.
- 7. Install the 6 new "AA" size batteries in the battery holder, noting the polarity markings located in the battery holder. Refer to Figure No. 5.
- 8. After placing all 6 batteries in the holder, replace the battery cover.
- 9. Turn the indicator over (display facing up) and press the **ON / OFF** key.
- If display turns on, batteries have been installed correctly. If not, remove panel and check for one or more improperly positioned batteries.
- 11. Return the indicator to the scale mounting bracket.
- 12. The indicator is now ready for operation.



AC Power Adapter

Figure No. 4



Figure No. 5

KEYPAD FUNCTIONS



DO NOT operate the keypad with pointed objects (pencils, pens, etc). Damage to keypad resulting from this practice is NOT covered under warranty.

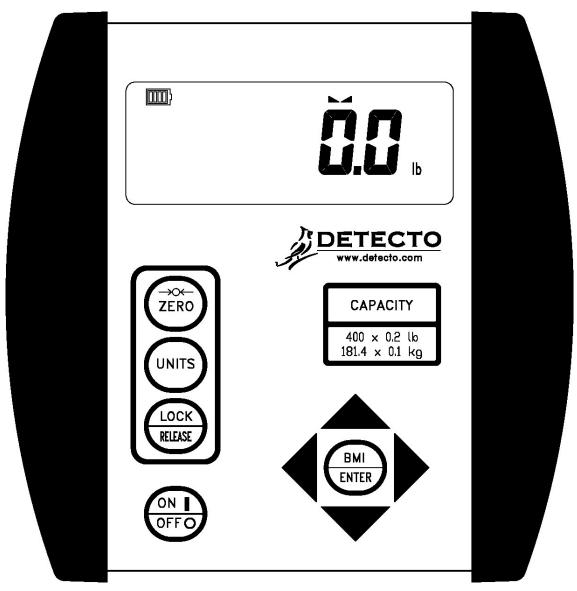


Figure No. 6



With the indicator off, pressing this key will apply power to the indicator and turn on the display. If the indicator is on, pressing this key will display ${}_{\sigma}FF$ and turn the indicator off.

Basic Functions



This key is used to reset the display to zero up to the selected limit of either 4% or 100% of scale capacity. The zero limit is set during setup and calibration of the indicator.

KEYPAD FUNCTIONS, CONT.



This key is used to change the weighing units to the alternate units of measurement. For example, with pounds displayed, pressing this key will change the weighting units to kilograms. **NOTE!** This feature must be enabled during setup and calibration for this key to be operational.



This key is used to lock and unlock the display. If the HOLD feature was enabled during setup and calibration, pressing this key (after obtaining a stable weight) will cause the indicator to lock onto the weight. Pressing this key again will unlock the display and return it to zero.

If AUTO LOCK feature was enabled, weight display will lock after placing a load on the scale and obtaining a stable weight. Pressing this key will unlock display and return it to zero, or if another load is applied, lock onto new weight after obtaining a stable weight. **NOTE!** The lock feature is for non-commercial (NOT "Legal for Trade") applications.

Body Mass Index (BMI) Functions



The **BMI / ENTER** key serves several purposes. First, during setup parameters, pressing it will display the current setting of the parameter. Second, it is used to signal completion of the data entry and causes the indicator to process the data entered. Third, it is used during normal operation to enter the height (feet and inches or centimeters) for the Body Mass Index (BMI) calculation.

NOTE! The indicator will not respond to pressing the **BMI / ENTER** key unless the weight display is stable.

Arrow Keys

The arrow keys are used during setup and calibration to select setup values. During operation, they are used to increase or decrease the BMI height values.

Pressing the ♠ or ▶ keys will increment or decrement the value of the selected digit. Pressing the ◀ or ▶ will move the cursor (blinking character) to the next character position. Pressing the BMI / ENTER key will save the value entered and advance to the next prompt. Note, that when moving through the setup prompts, the default or previously selected value appears first on the display.

Pressing the ♠ or ▼ keys during normal operation will enter a weight recall option allowing the last 10 weights recorded to be reviewed. The weight is recorded each time the weight is locked. The **ZERO** key can be used to clear the recorded values. Use the ♠ or ▼ keys to scroll through the 10 records. Press any other key to return the indicator to normal operation.

NOTE! While reviewing the recorded weights, the display will alternate between the transaction number and the weight.

ANNUNCIATORS

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

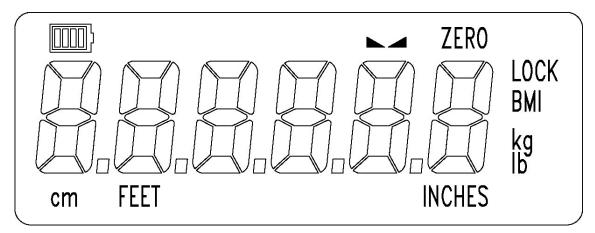


Figure No. 7



The low battery annunciator is located in the upper left corner of the display. It is used to indicate the battery status. Refer to Power Connection section of this manual for more details.

▲ (STABLE)

This annunciator is turned on when the weight display is stable. When off, it means that the change in successive weight samples is greater than the motion limits selected during setup.

ZERO

This annunciator is turned on to indicate that the weight displayed is within +/- 1/4 division of the center of zero.

LOCK

This annunciator is turned on to show that the indicator is locked onto the displayed weight. In operation, after obtaining a stable weight, pressing the **LOCK/RELEASE** key will cause the indicator to lock onto the weight and turn on the annunciator. Pressing the key again (or dropping below the Auto Lock reset value) will unlock the display and turn off the annunciator. **NOTE!** The lock feature must be enabled during setup.

BMI (Body Mass Index)

This annunciator is turned on when displaying the calculated body fat.

κg

This annunciator is turned on to indicate that the displayed weight is in kilograms.

lb

This annunciator is turned on to indicate that the displayed weight is in pounds.

cm

This annunciator is turned on when the displayed height measurement is in centimeters.

FEET INCHES

These annunciators are turned on when the displayed height measurement is in feet and inches.

OPERATION

Basic Weighing Operation

To Weigh

- 1. Press **ON / OFF** key to turn on indicator.
- 2. Press **ZERO** key to zero weight display. The ZERO and lb or kg annunciator will turn on to show that scale is ready for use.
- 3. Place patient on scale and read weight display.
- 4. Remove patient from scale.

Zero Weight Display

- 1. If the indicator is not showing zero weight on the display, press **ZERO** key.
- 2. Weight display will return to zero. ZERO, STABLE ▲ and lb or kg annunciators will turn on to show a stable, center-of-zero weight condition.

Metric Conversion

Press **UNITS** key to toggle between pounds and kilograms. Note that lb or kg annunciator will turn on to show which weighing unit is active.

Zero Weight Display with Item on Scale

- 1. Place item (wheelchair, walker, etc...) on scale.
- 2. Display will show weight of item on scale.
- 3. Press **ZERO** key.
- 4. Weight display will return to zero. ZERO, STABLE ▲ and lb or kg annunciators will turn on. The item's weight has been "zeroed off".
- 5. Proceed with weighing operation.

Body Mass Index (BMI) Operation

To Weigh and Calculate BMI

- 1. Press **ON / OFF** key to turn on indicator.
- 2. Press **ZERO** key to zero weight display. The ZERO and lb or kg annunciator will turn on to show that scale is ready for use.
- 3. Place patient on scale and read weight display.
- 4. Press **BMI / ENTER** key.
- 5. If pounds is the active weighing unit, display will change to show 5 FEET, 6 INCHES with the 6 blinking. (The blinking character is the position to be changed).
 - a. Press o r vec keys until desired height in inches is displayed and then press
 d or vec keys until desired height in inches is displayed and then press
 d or vec keys until desired height in inches is displayed and then press
 d or vec keys until desired height in inches is displayed and then press
 - b. Press or keys until desired height in feet is displayed.
 - c. Proceed to Step 7.
- 6. If kilograms is the active weighing unit, display will change to show 170 cm. with the 0 of 170 blinking. (The blinking character is the position to be changed)...
 - a. Press ♠ or ▼ keys until the desired number is displayed.
 - b. Press ◀ or ▶ key to move to next character to change.
 - c. Repeat steps A and B until the desired height in centimeters is displayed.
 - d. Proceed to Step 7.
- 7. Press BMI / ENTER key.
- 8. Read BMI on display.
- 9. Remove patient from scale.
- 10. Press **BMI / ENTER** key to return to weighing operation.

NOTE! The **BMI / ENTER** key can be used to toggle between the calculated BMI value and the weight until the scale goes below 10% of capacity (40 lbs). At that point, a new height input is required.

SETUP AND CALIBRATION

Your Model 750EU indicator has been thoroughly tested and calibrated before being shipped to you. If you received the indicator with a scale, calibration is not necessary. If the indicator is being connected to a scale for the first time or recalibration is necessary for other reasons, proceed as indicated.

Calibration of the indicator is accomplished entirely by the keypad. To enter setup and calibration, the calibration switch must be pushed in and held while turning on the indicator.

Begin Setup and Calibration:

- With power off, remove the 2 screws from the left end cap (as viewed from indicator front) and remove the end cap.
- 2. Locate the calibration switch on the circuit board and push it in. See Figure No. 8.
- 3. With the switch held in, press the **ON / OFF** key.
- When display shows SELUP, release the calibration switch. The indicator is now ready for setup and calibration.

During setup and calibration it is necessary to enter values using the indicator's keypad. When a prompt is displayed on the indicator, press the **BMI / ENTER** key to view the current setting. To retain the current setting and proceed to the next prompt, press the **BMI / ENTER** key again. To change a setting, press the ♠ or ▼ keys (up or down arrow) to scroll through and select a new value. After a new value has been selected, press the **BMI / ENTER** key to save it and advance to the next prompt. Note that some setup prompts have values with 2 or more digits. The blinking character is the position to be changed and can be advanced to the next position by pressing the ◀ or ▶ (left or right arrow) key.

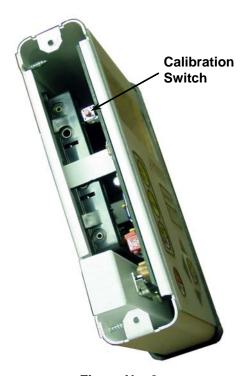


Figure No. 8



DO NOT operate the keypad with pointed objects (pencils, pens, etc). Damage to keypad resulting from this practice is NOT covered under warranty.

USA: (DOMESTIC or INTERNATIONAL)

This is the prompt to select whether the indicator is used in the USA (domestic) or outside the USA (international). Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ★ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0 or 1.

 U58: I (Domestic)
 U58: 0 (International)

 No Zero Limit
 +/- 4% Zero Limit

 E8P +4% to OC
 E8P +9 grads to OC

int: (INTERVAL SETTING)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▼ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 1, 2 or 5.

Un it: (WEIGHING UNIT)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▼ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 1, 2, 3 or 4.

1 = Pounds Only 2 = Kilograms Only 3 = Pounds/Kilograms 4 = Kilograms/Pounds 5 = Pounds & Ounces/Kilograms (if USA=1)

Un5= (MOTION (UNSTABLE) RANGE)

The Motion (Unstable) Range is the number of divisions of change permitted before the STABLE annunciator turns off.

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▶ keys and the ◀ or ▶ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are 0 through 99.

dPP: (DECIMAL POINT POSITION)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ✔ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0, 1, 2, or 3.

0 = XXXXXX 1 = XXXXXX 2 = XXXXXX 3 = XXXXXXX

[RP: (SCALE CAPACITY)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▶ keys and the ◀ or ▶ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 1 through 99,999.

FLE: (DIGITAL FILTER LEVEL SELECTION)

Your indicator will arrive with factory filter settings of 1 = Minimal. *Please check with Tech Support before changing filter level, break range and sample rate.*

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ✔ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are:

0 = Minimal Filter 1 = Moderate Filter 2 = Heavy Filter 3 = Custom Filter

NOTE! If 3 = Custom Filter is selected, two additional prompts will be displayed.

F = (FILTER LEVEL)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ✔ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are 1 (least amount of filtering) to 99 (greatest amount of filtering).

br = (BREAK RANGE)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ✔ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are 1 to 99 which correspond to the number of division changes to break out of filtering.

5r = (SAMPLE RATE)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▼ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are a minimum of 1 sample per second to a maximum of 16 samples per second in one sample per second intervals.

[AL = (CALIBRATION)

With the display showing ERLz, press the **BMI / ENTER** key. The display will change to show the current setting O(0=NO). If the scale has been previously calibrated and you wish to skip calibration and proceed to the HOLdz (Hold Mode) prompt, press the **BMI / ENTER** key and the previous calibration will be retained.

To begin calibration, press the \(^\Left\) key to select 1 (yes) and then press the **BMI / ENTER** key. After pressing the **BMI / ENTER** key, the display will change to \(^LORd=.\)

LoAd: (LOAD CALIBRATION WEIGHT)

With the display showing LoAd = perform the following steps:

- 1. Make certain the scale platform is empty and free of debris.
- 2. Place the desired amount of calibrated test weights on the scale platform. A minimum of 50% of scale's capacity is required. However 70% to 100% is recommended.
- 3. Press the BMI / ENTER key.
- 4. If the value displayed is acceptable, press the BMI / ENTER key again. Otherwise, determine the exact amount of test weight placed on the scale platform and then using the ♠ or ▼ keys and the ♠ or ▶ keys scroll through and select the test weight amount.
- 5. Verify that the numbers selected are the same as the amount of the test weight and then press the **BMI / ENTER** key.
- 6. Starting at the left and preceding right, a series of dashes will appear on the display. The dashes will stay on the display momentarily, then disappear, after which the display will proceed to the next prompt.

ปกใดหีสะ (UNLOAD CALIBRATION WEIGHT)

After a moment, the display will change to UnLoRd.

- 1. Remove the test weights from the scale platform and then press the BMI / ENTER key.
- 2. Starting at the left and preceding right, a series of dashes will appear on the display. The dashes will stay on the display momentarily, then disappear, after which the calibration factor will be saved and the display will proceed to the next prompt.



IMPORTANT! During the time the dashes are appearing on the display, insure that the loaded (or empty) scale is stable.

5866 (SET GRAVITY CONSTANT)

This indicator is equipped with an acceleration of gravity function which means that it can be calibrated in one location and then adjusted to match the acceleration of gravity at the location where it will used.

With the display showing 5EEGC press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the \triangle or \checkmark keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0 or 1.

SEEGC = 0 SEEGC = 1

Gravity Constant is NOT used Set Gravity Constant

NOTE! If you select 1 (Set Gravity Constant) the following additional prompts will be displayed:

ERLUE: (CALIBRATED GRAVITY CONSTANT)

The display will change to show <code>ERLGE=</code>. Press the <code>BMI / ENTER</code> key to show the current setting. This is the acceleration of gravity value of the location where the scale was calibrated. If the value displayed is acceptable, press the <code>BMI / ENTER</code> key to save it. Otherwise, press the <code>♠</code> or <code>▼</code> keys and the <code>♦</code> or <code>▶</code> keys to scroll through and select a new value and then press the <code>BMI / ENTER</code> key to save it and proceed to the next prompt. Consult the factory Tech Support for the Acceleration of Gravity value for your location.

OPGE : (OPERATING GRAVITY CONSTANT)

The display will change to show ${}_{\mathcal{O}}\mathcal{F}\mathcal{E}\mathcal{E}$. Press the **BMI / ENTER** key to show the current setting. This is the acceleration of gravity value for the location where the scale will be operated. If the value displayed is acceptable, press the **BMI / ENTER** key to save it. Otherwise, press the ${}^{\blacktriangle}$ or ${}^{\blacktriangledown}$ keys and the ${}^{\blacktriangledown}$ or ${}^{\blacktriangledown}$ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Consult the factory Tech Support for the Acceleration of Gravity value for your location.



NOTE! Once the Gravity Constant has been set, both ERLGEz and oPGEz must be set to the same value to disable it.

Hold: (HOLD MODE)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ✔ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0, 1, or 2.

0 = NO (disable) 1 = YES (enable) 2 = AUTO (Automatic Hold)

- If Hold: 0 or! (NO or YES) is selected, proceed to ErR: (Zero Tracking Range) prompt.
- If HoLd: 2 (AUTO) is selected, an additional prompt bRod: (Auto Lock Reset Band) will be displayed. Proceed to bRod: prompt to continue setup.

With Hold feature enabled (HoLdz!), the indicator will lock the displayed weight on the display when LOCK/RELEASE key is pressed. Pressing the key again will unlock display. If automatic hold (HoLdz?) is selected, the indicator will automatically lock the weight on the display after obtaining a stable weight value that exceeds the Auto Lock Reset Band value. Refer to Auto Lock Reset Band setup below.



NOTE! The HOLD mode of operation is only used in non-commercial applications and must be DISABLED (set to 0 = NO) for "Legal for Trade" applications.

bfind: (AUTO LOCK RESET BAND)

If Auto Lock is selected, the display will change to show the **bRnd**: (Auto Lock Reset Band) prompt. This is the number of division changes needed to reset the auto lock. For the Auto Lock to function, the load on the scale must rise above the **bRnd**: value (and remain stable). To release Auto Lock, the load on the scale must fall below the **bRnd**: value. At that point, the next weighing operation can begin.

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▼ keys and the ◀ or ▶ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0 through 99.

ŁrR: (ZERO TRACKING RANGE)

Zero tracking range is a value in scale divisions that will be automatically zeroed off. Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▶ keys and the ◀ or ▶ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are 1 through 18 (1 to 9 divisions by 0.5 divisions). Select 0 (zero) to disable zero tracking.

PUD: (Power Up Zero)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ✔ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0 or 1.

PU0: 1 (YES)

PU0:0 (NO)

Weight display will be reset to zero automatically on power up

weight display will not be reset to zero

n ₁ERd (Battery Charging Selection)

This setting determines whether the battery charging is enabled or enable and forced on to charge batteries that are discharged.

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ✔ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0, 1, or 2.

- 0 Battery charging is DISABLED
- NiCad or NiMH batteries battery charging is ENABLED
- 2 Battery charging is ENABLED and FORCED ON. This selection forces battery charging for NiCad or NiMH batteries that are discharged.

SLEEP: (Sleep Mode)

The Sleep Mode feature also conserves battery power when the indicator remains unused for a period of approximately 1 to 9 minutes. When enabled, the load cell excitation will be reduced and the display will show 5LEEP. The Sleep feature requires the indicator to remain at the center of zero to activate, unlike Automatic Shutoff feature which only requires no motion. Weight placed on scale will activate indicator and return it to weight mode.

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▼ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are 0 through 9 with 0 disabling Sleep Mode

ASH: (Automatic Shutoff)

The Automatic Shutoff feature will turn the indicator off after a period of approximately 1 to 9 minutes of inactivity to prolong battery life. You must press the **ON / OFF** key to turn indicator back on.

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ✔ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are 0 through 9 with 0 disabling Automatic Shutoff.

Setup and Calibration Is Completed

The setup and calibration process has been completed. The indicator will reset and then turn off. Remove power from the indicator and re-assemble for use.

SETUP REVIEW

The 750EU indicator allows several operational parameters to be reviewed and changed as necessary without having to enter the setup mode.

To Enter Setup Review:

- 1. If indicator is on, press **ON / OFF** key.
- 2. Display will show oFF and indicator will turn off.
- 3. Press and hold BMI / ENTER key and then press ON / OFF key.
- 4. Indicator will perform a lamp test (turn on all segments of display), display model number and software revision and then display £ r 8 = prompt.
- 5. With display showing £ r fl =, release **BMI / ENTER** key.
- 6. Refer to instructions listed in Setup and Calibration section for information on how to change parameters.

Parameters in Setup Review will be processed in the following sequence:

FrB	Select the number of scale divisions automatically zeroed on power up
PUO	Enable or Disable automatic reset of weight display to zero on power up
n iEAd	Select to enable battery charging and type of charging
SLEEP	Disable or select number of minutes of inactivity at zero for sleep mode
ASH	Disable or select number of minutes for automatic shutoff timer

ERROR AND STATUS DISPLAYS

Display	Meaning
-8	General error, invalid keypad entry was attempted.
-ouf-	Attempting to display a negative number greater than -99,999 or a positive number greater than 999,999
-6-6-	Indicates an attempt to zero a weight outside scale zero range. (See Four Percent Zero Tracking Range Limit).
	Press ON / OFF key to power down scale. Remove weight from scale and then press ON / OFF key to power up scale.
- Un 5 -	Motion is present when indicator is attempting to perform one of the following operations: Power Up Zero or Zero Weight Display
CAL 1P	Indicates calibration is necessary.
AdErr —	
ErrAL	Consult your scale service representative.
ErrAH —	
OCAP	Scale weight exceeds scale capacity
OFF	Displayed to indicate indicator is turning off.

BEFORE YOU CALL FOR SERVICE

PROBLEM	POSSIBLE SOLUTIONS		
Display does not	AC Operation:		
turn on	Is AC power adapter fully inserted into wall receptacle?		
	 Check wall receptacle for proper AC power. Try another electrical appliance in same receptacle, does it work? 		
	Check circuit breaker.		
	Has there been power failure?		
	Battery operation:		
	Check if batteries are installed and correctly.		
	Are batteries discharged?		
	Remove old batteries and replace with new ones.		
	Connect the 12 VDC AC power adapter's connector into the jack on the back of the indicator and then plug the power adapter into the proper electrical outlet to operate the indicator and recharge the batteries.		
Incorrect weight displayed	Insure that scale platform isn't touching an adjacent object. Have proper operation procedures been followed?		
Indicator will not display weight	Refer to Error and Status Displays section.		

CARE AND CLEANING

- **DO NOT** submerge indicator in water, pour or spray water directly on indicator.
- DO NOT use acetone, thinner or other volatile solvents for cleaning.
- DO NOT expose equipment to temperature extremes.
- DO NOT place equipment in front of heating/cooling vents.
- **DO** clean the indicator 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.

EVENT COUNTER

The Model 750EU Weight Indicator has been designed with an Event Counter type of security seal. When selected, the 750EU will display two 3-digit numbers representing the Calibration and Configuration counters.

Calibration Counter

The calibration counter is incremented when a value in the calibration part of setup is changed (USR, Int, Unit, U

Configuration Counter

The configuration counter is incremented when a value in the configuration part of setup is changed (HoLd, bRnd, ErR, PUD, n IERd, SLEEP, RSH). The counter is only incremented 1 time even if more than one parameter is changed each time through setup.

To Review the Event Counter:

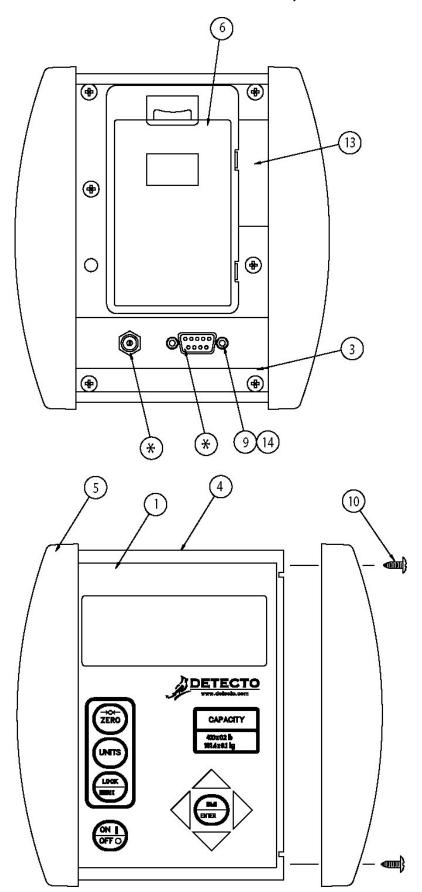
- 1. If indicator is on, press **ON / OFF** key.
- 2. Display will show off and indicator will turn off.
- 3. Press and hold the **UNITS** key and then press **ON / OFF** key.
- 4. The display will then show ERL EH (Calibration Check) for two (2) seconds followed by two 3-digit numbers.
 - The left number represents the setup Configuration counter.
 - The right number represents the Calibration counter.
- 5. To return to the normal operation, press the **UNITS** key.
- 6. Otherwise press the **ON / OFF** key to turn off the indicator.

PARTS IDENTIFICATION

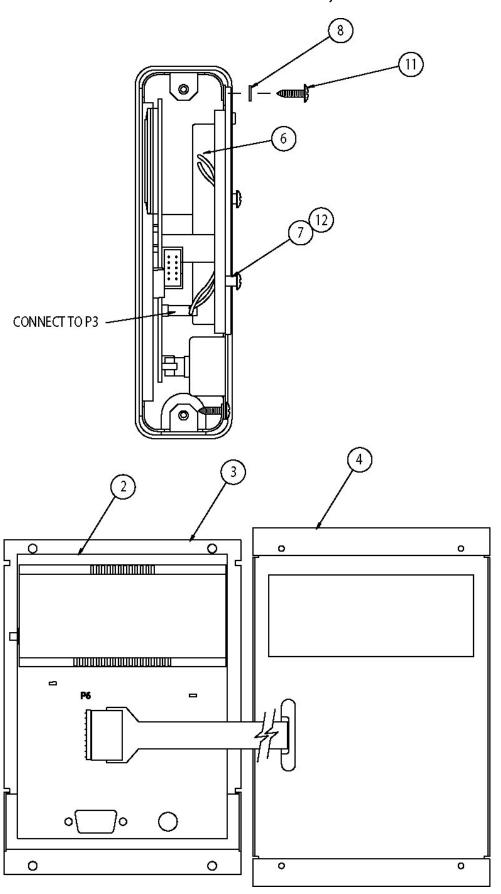
Item	Qty	Part Number	Description
1	1	8555-D264-08	KEYPAD
2	1	8555-D251-0A	PCB ASSY 750EU CONTROLLER
3	1	8555-C255-08	REAR PANEL
4	1	8555-C253-08	FRONT PANEL
5	2	8555-C213-08	END CAP
6	1	8555-B257-0A	BATTERY HOLDER
7	2	8555-B254-08	MOUNTING SPACER
8	4	6680-0004	WASHER, #6 LOCK INT. TOOTH
9	2	6610-2000	JACK SOCKET
10	4	6021-6008	SCREW, #6X.375 TH SHEET METAL (BLACK)
11	4	6021-2069	SCREW, #6X.50 TH SHEET METAL (WHITE)
12	2	6021-0687	SCREW, #6-32X.312 THMS W/THD-LOCK PATCH
13	1	593GR986	SERIAL TAG
14	2	6680-0052	WASHER, #4 LOCK HELICAL
*			PART OF ITEM 2, PC BOARD, 8555-D251-0A
**	1	6800-1045	OPTIONAL AC ADAPTER 110-240VAC/12VDC @ 1 AMP

** NOT SHOWN

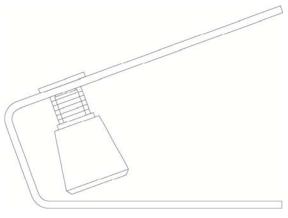
PARTS IDENTIFICATION, CONT.



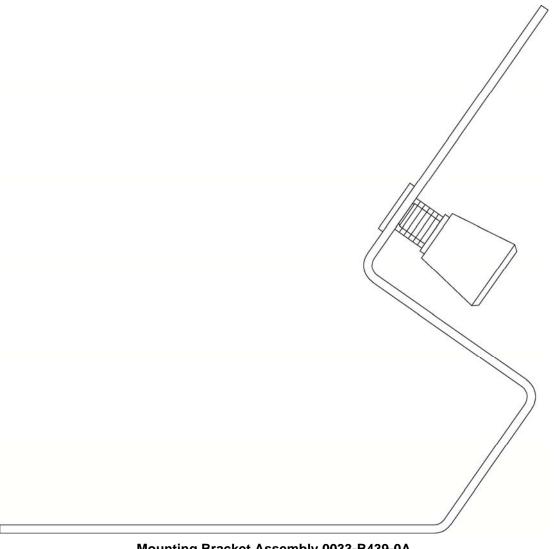
PARTS IDENTIFICATION, CONT.



APPENDIX A INDICATOR MOUNTING BRACKETS

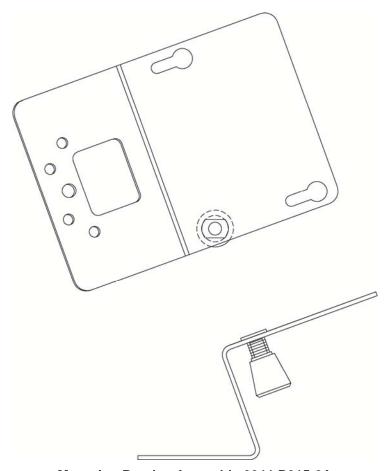


Mounting Bracket Assembly 0033-B438-0A

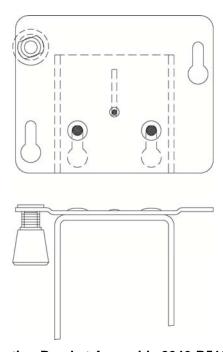


Mounting Bracket Assembly 0033-B439-0A

APPENDIX A INDICATOR MOUNTING BRACKETS



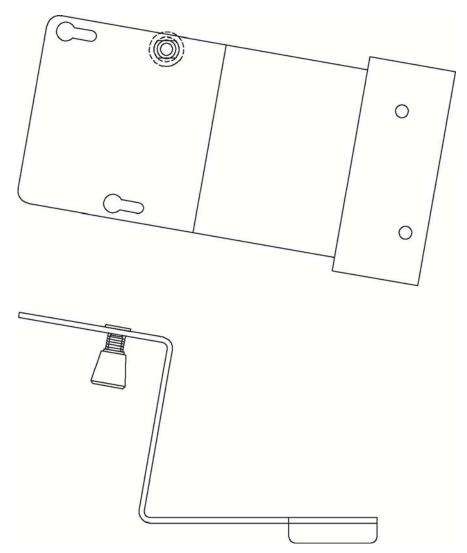
Mounting Bracket Assembly 0044-B315-0A



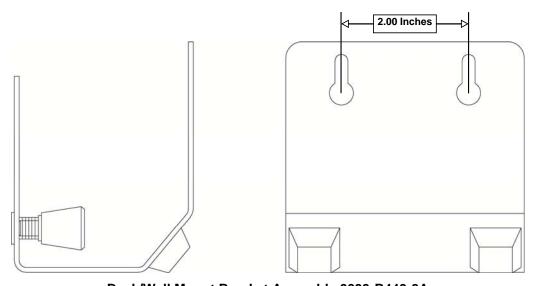
Mounting Bracket Assembly 0046-B516-0A

APPENDIX A

INDICATOR MOUNTING BRACKETS



Mounting Bracket Assembly 0049-C039-0A



Desk/Wall Mount Bracket Assembly 0033-B440-0A

STATEMENT OF LIMITED WARRANTY

Detecto Scale 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 suspect 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 loss or damage in transit.

STATEMENT OF LIMITED WARRANTY

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 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.



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