Health o meter® Professional

Model 349KLX
Remote Display Digital Scale

User Instructions

PELSTAR, LLC **9500 West 55th St. McCook, IL 60525-7110 USA** **www.homscales.com**

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Health o meter®
Professional

Model 349KLX

Thank you for your purchase of this Health o meter® Professional product. Please read this manual carefully, and keep it for easy reference or training.

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Note: This scale has been factory calibrated, and does not require calibration prior to use.

Please register your scale for warranty coverage at:

www.homscales.com

For User Instructions updates and revisions please go to:

www.homscales.com

CAUTION AND WARNING

- To prevent injury and damage to your scale, please follow these instructions very carefully.

- Assemble and operate the scale per the enclosed user instructions.

- For accurate weighing, this scale must be placed on a flat, stable surface.

- For accurate weighing, verify before each use the proper operation according to the procedure described in this manual.

- Operating this scale at voltages and frequencies other than specified can damage the equipment and will void the warranty.

- Do not transport the scale with any weight on the platform.

- Do not exceed recommended weight limit of 400 lb / 180 kg for this scale.

- Do not use in the presence of flammable or explosive materials.

- For accurate weighing, if the "Lo" indicator activates, replace the batteries or switch to the AC adapter as soon as possible.

- If the scale becomes damaged, it should not be operated until properly serviced. All repairs should be performed by authorized service personnel.

- When replacing / inserting the batteries, be sure to use new AA batteries.

- To prevent patient injury, the patient must be attended to throughout the entire weighing event.

When operating this scale with the <u>optional</u> AC adapter:

- Operate this scale exclusively with the AC adapter provided by Health o meter® Professional. Use of an unspecified adapter will void the warranty, and can pose a serious safety hazard.

- For use with AC adapter model ADPT40.

- Prior to using this scale, inspect the AC adapter cord for cracking or fraying, or for broken / bent plug prongs.

- Prior to using this scale, ensure that the AC adapter is plugged into an outlet with the rated voltage appropriate for operation.

- Ensure that the AC adapter outlet is wired to a circuit breaker or other protected power source.

- Ensure that the AC adapter and scale do not come in contact with liquids, excessive temperature, or excessive humidity.

- Unplug the AC adapter, and carefully store both the AC adapter and adapter cord before moving the scale.

- If the scale is being connected to another medical device, the power adapter must not be used. Disconnect the power adapter from the scale and use only the battery power. This ensures proper electrical isolation.

SPECIFICATIONS FOR THIS SCALE

General

The Model 349KLX remote display digital scale uses highly sophisticated microprocessor technology. Each scale is designed to provide accurate, reliable and repeatable weight measurements. In addition, each scale is designed to provide the user with features that make the weighing process simple, fast, and convenient.

This scale is set up to use weighing technology that is able to determine the actual weight of a moving patient.

Weight can be displayed in pounds (lb) or in kilograms (kg). For privacy and convenience, the scale features a remote display head which may be held by the operator, placed on a table or other flat surface, or mounted on a wall. **This scale can be powered using an AC adapter, model ADPT40 (not included), or by 6 AA batteries (included).**

349KLX Scale Specifications

Capacity and Resolution	400 lb x 0.2 lb (180 kg x 0.1 kg)
Power Requirements	120 VAC, 60Hz - DC adapter (model ADPT40) or 6 AA batteries.
Environmental	Operating temperatures: 50°F to 95°F (10°C to 35°C) Storage temperatures: 32°F to 125°F (0°C to 50°C) Maximum Humidity: 95% RH
Physical Dimensions	**Platform** Length: 12" (30.5 cm) Width: 12.5" (30.5 cm) Height: 1.875" (4.8 cm) Weight: 8.8 lb (4.0 kg) **Display assembly** Length: 7.75" (19.7 cm) Width: 1.5" (3.8 cm) Height: 4.25" (10.8 cm) Weight: 12.8 oz (0.36 kg)

CERTIFICATIONS / DISPOSAL

Certification Descriptions

ISO13485:2003 CERTIFIED	Pelstar, LLC has been officially certified as the manufacturer of Health o meter® Professional medical devices. The Pelstar, LLC quality assurance system covers the development, production, sales and service of medical scales and measuring systems.

349KLX Scale Disposal

This Health o meter® Professional scale must be disposed of properly as electronic waste. Follow the national, regional or local regulations which apply to you for disposal of electronic waste or battery. Do not dispose of this device in the domestic waste stream.

ASSEMBLY INSTRUCTIONS

Before Assembly

Each 349KLX remote display digital scale is shipped disassembled in one carton. Carefully inspect the carton for shipping damage before unpacking. If damage is found, contact your shipper or a Health o meter® Professional representative immediately at 1-800-815-6615. Claims must be filed with the shipper as soon as possible after receipt of the package. The following information details what you will find inside the main carton as you unpack the parts for assembly.

To prevent scratching any components, carefully remove each assembly from the carton and unwrap the packing materials. Set the carton aside for storage. To avoid damaging the scale parts when unpacking, do not use a box cutter, knife, scissors, or any sharp object to open the protective inner packaging.
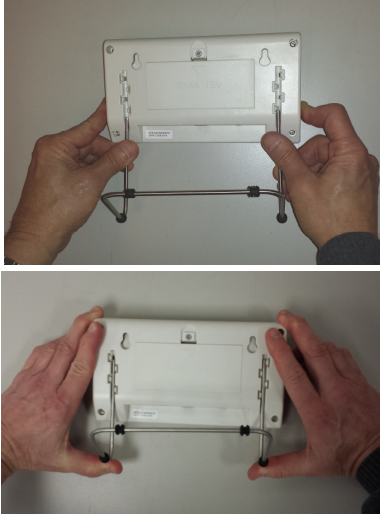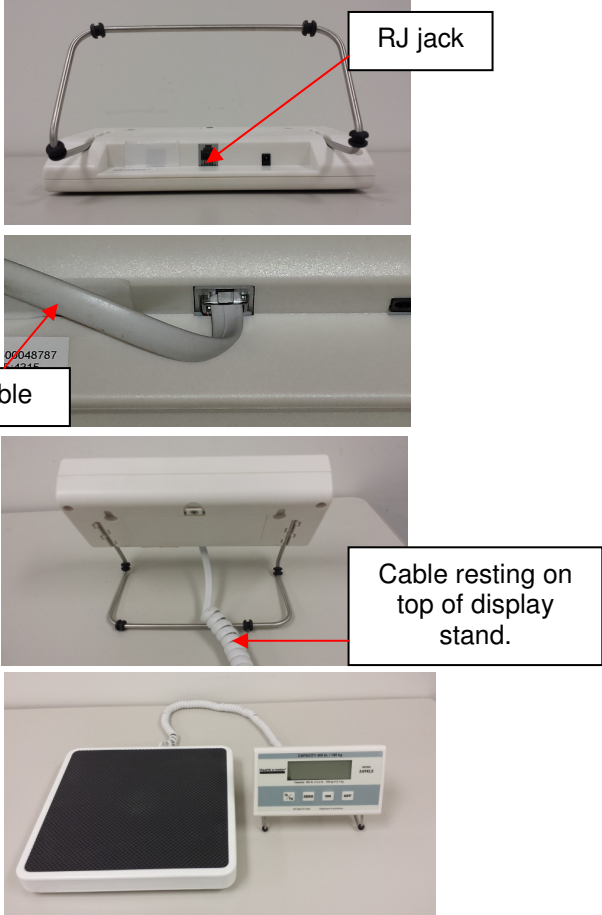
Parts List

Carton

- (1) Scale platform
- (1) Display assembly
- (6) AA batteries
- (1) User instructions
- (1) Metal Stand
- (2) #8 Anchoring screws (4.2 mm nominal OD)
- (2) Drywall mounting anchors

Tools Required

Phillips head screwdriver (not included)

Assembling the 349KLX Scale

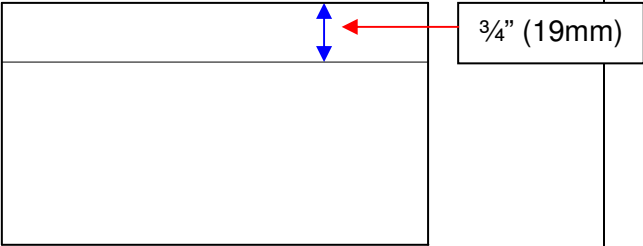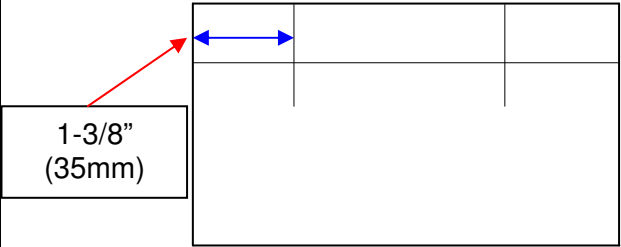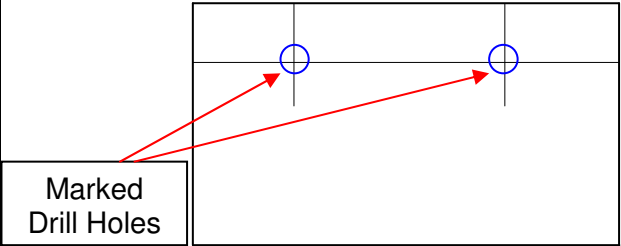|	
1. Carefully remove the scale platform and display assembly from the carton, and place on a flat, level, and dry surface.	
2. If using the display assembly on a desk or table, insert the metal stand into the slots on the back of the display.	
3. Connect the cable to the RJ Jack in the bottom of the display assembly. Ensure that the cable rests on top of the metal stand so the display assembly rests flat on the table. If using the scale on battery power the scale is now ready for use. If using the scale with the optional AC adapter see page 10 for set up intructions.	RJ jack Cable Cable resting on top of display stand.

DISPLAY ASSEMBLY WALL MOUNT INSTRUCTIONS

Required Parts

(1) Display assembly

(2) #8 Anchoring screws (4.2 mm nominal OD)

(2) Mounting anchors, compatible with wall construction

Caution: When wall mounting the display assembly, ensure that the mounting location is free of electrical lines, gas pipes, and other safety hazards. Ensure that wall is of construction that can support the display assembly.

Note: Remote head can be mounted to a wall up to 6 feet (1.83 m) from the base or it can be mounted on the display bracket (included) for placement on a table up to 6 feet (1.83 m) from the base.

1. Position the display assembly on the wall, and carefully trace around the display.	
2. Mark a level horizontal line, 3/4" (19 mm) below the top of the display outline.	¾" (19mm)
3. Mark a vertical line 1-3/8" (35 mm) from each side of the display outline.	1-3/8" (35mm)
4. At the horizontal and vertical intersection, carefully drill the appropriate size hole.	Marked Drill Holes

5. Once the holes are marked, use a hammer or Phillips head screwdriver to set the 2 drywall anchors into the holes. Use a screwdriver to insert the drywall anchors completely into the wall. Screw the two mounting screws into the anchors. Adjust the screw head depth such that the screw heads protrude 1/8" (3.2 mm) from the wall. **Warning: Extending the screw heads beyond 1/8" (3.2 mm) can damage the display assembly.**	
6. Position the display assembly mounting holes onto the mounting screws, and carefully pull down on the display assembly to secure.	
7. Connect the cable to the RJ jack in the bottom of the display assembly. If using the scale on battery power the scale is now ready for use. If using the scale with the optional AC adapter see page 10 for set up intructions.	
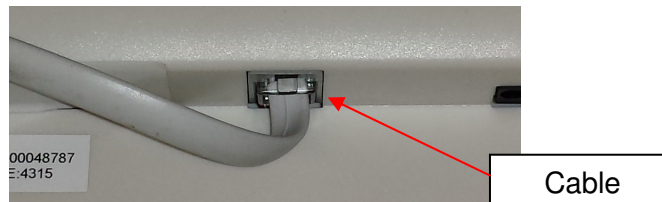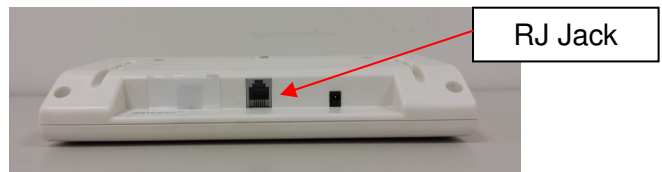
POWERING THE SCALE

Powering the Scale

1. If powering the scale via the optional AC adapter, plug the adapter into the display assembly and into a power source.

Power Adapter Port

2. For battery operation, see Battery Installation below.

Battery Installation

1. Unplug the AC adapter from the power source.

2. Use a Phillips head screwdriver to remove the battery cover on the back of the display assembly.

Battery Cover
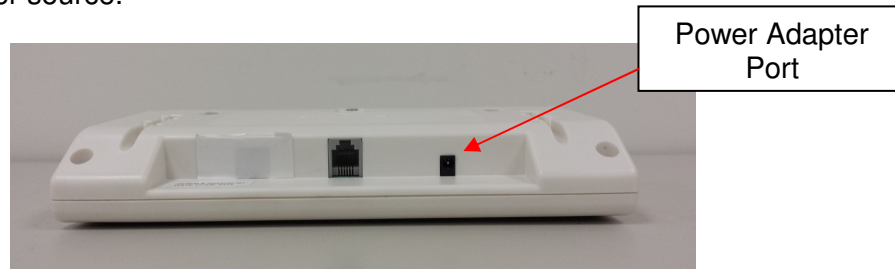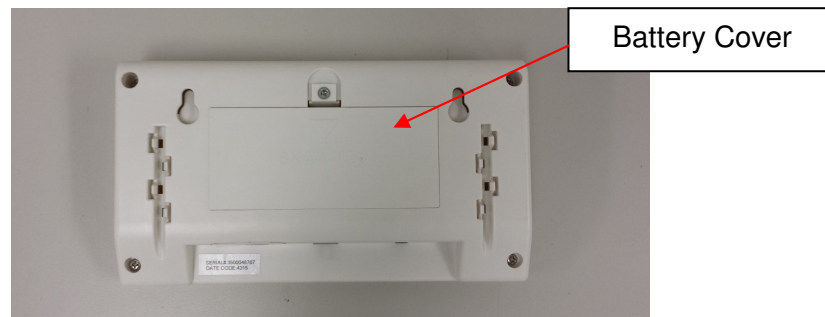
3. Replace or install fresh batteries. Note the orientation that is shown and ensure the batteries are placed in the proper directon.

Note + orientation
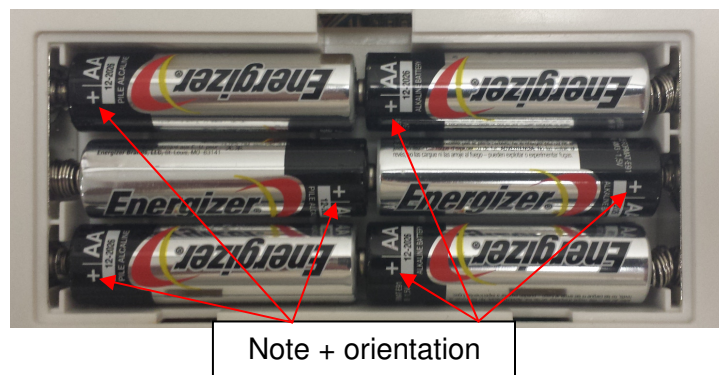
Note: Health o meter® Professional recommends using alkaline or lithium batteries, rated for 130°F (54°C) operation. Do not use zinc-carbon batteries.

4. Re-attach the battery cover to the display assembly.

Warning: If the scale will not be used for some time, remove the batteries to avoid a safety hazard. Disposal of batteries must be performed in accordance with the prevailing national, regional or local regulations that apply to you.

TRANSPORTING THE SCALE WITH OPTIONAL CARRYING CASE

Preparing a 349KL Scale for Transport

This scale can be easily placed into a carrying case (item # 64771) for storage, or transport from one room to another. To prepare the scale for transport, follow these steps:

Optional
Carrying Case
Item # 64771
Sold Separately

1. Remove the display assembly and display bracket from its current position.

2. Unplug the AC adapter and cable from the display assembly, and remove the AC adapter from the outlet.

3. Carefully store the AC adapter, display bracket, and display assembly in carrying case to prevent damage during transport.

4. Lift scale platform carefully from the floor and place it into the carrying case. Position the scale platform so that the RS-232 serial port and cable are facing up.
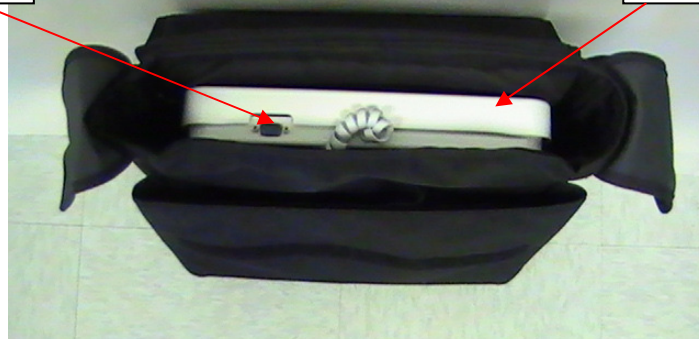
RS-232 serial port   Scale platform

5. Close carrying case flap to cover the scale. Grasp the carrying case strap and carefully lift the case into the upright position. The scale can now be transported.

OPERATING INSTRUCTIONS

Keypad

Function	Description
ON	Powers scale on.
OFF	Powers scale off.
ZERO	Zeroes out or tares the scale prior to a weighing.
lb. / kg	Toggles between pounds (lb) and kilograms (kg).

Weighing a Patient
1. Make sure there is nothing on the weighing platform.
2. Press the **ON** button to power the scale on.
3. Wait until "0.0" LB or "0.0" KG appears on the display.
4. Press the **ZERO** button to zero the scale, if necessary.
5. Have the patient step onto the scale. Wait for the weight reading to stabilize.
Note: Depending on the movement of the patient on the scale, it may take approximately 3-4 seconds for the weight reading to stabilize.
Caution: To prevent patient injury, the patient must be attended throughout the entire weighing event.
6. After recording the weight, have the patient step off the scale.
7. Press the **OFF** button to power the scale off.

Auto-Off Function
As an energy saving feature, the scale automatically powers off after 2 minutes of inactivity. This function is enabled by default.

Disable Auto-Off
1. While the scale is powered off, press and hold the **lb./kg** button.
2. While holding the **lb./kg** button, press the **ON** button to power the scale on.
3. "349" will briefly appear on the display followed by "A-OF" and then "0.0" lb appears.
4. Release the **lb./kg** and **ON** button.
5. Auto-off is now disabled, and the scale will remain on until the scale is manually powered off.

Enable Auto-Off
1. While the scale is powered off, press and hold the **lb./kg** button.
2. While holding the **lb./kg** button, press the **ON** button to power the scale on.
3. "349" will briefly appear on the display, followed by "0.0" lb.
4. Release the **lb./kg** and **ON** button.
5. Auto-off is now enabled.

Changing the Weight Measuring Unit
1. Press the **ON** button to power the scale on.
2. Wait for "0.0" LB or "0.0" KG to appear on the display.
3. Press the **lb./kg** button to toggle to the desired weight measuring unit.

Locking the Weight Measuring Unit
Note: The weight measuring unit can be locked to only measure in KG or LB.

1. Press the **ON** button to power the scale on.
2. Wait for "0.0" LB or "0.0" KG to appear on the display.
3. Press and hold the **lb./kg** button until the unit of measure begins to flash and the selected mode will be locked.
4. Release the **lb./kg** button and the scale will operate in the selected mode.
5. Repeat steps 3-4 to change the weighing mode to a different unit of measure as the default for use.

Connection to Welch Allyn® Spot Vital Signs® Lxi Monitor.
Warning: When connecting to another medical device, the power adapter must not be used. Disconnect the power adapter from the scale and use only the battery power. This ensures proper electrical isolation.

Tare Function

When using this scale, the weight of an object can be subtracted from the total weight in order to determine the weight of the patient alone. The Tare Function (**ZERO** button) automatically performs this subtraction.

1. With all weight off the scale, press the **ON** button to turn the scale on.
2. Wait until "0.0" LB or "0.0" KG appears on the display.
3. Place the object to be tared onto the weighing platform. The display will show a value for the objects weight.
4. With the object remaining on the scale, press the **ZERO** button. The word "TARE" or "UNDER" will appear on the display, followed by "0.0" LB or "0.0" KG.
5. Place the patient onto the scale. The scale will automatically deduct the weight of the object and only display the patient's weight.
6. With all the weight off the scale, "under" will be temporally displayed and then the display will return to "0.0" LB or "0.0" KG.
7. Press **TARE** after weighing process is complete to return to normal weighing mode.

Child/Parent Function

The Parent/Child function on Health o meter® Professional scales provides the convenience of weighing a small child or infant while being held by a parent. Follow these simple steps to subtract the parent's weight from the total so only the child's weight is displayed.

1. With all weight off the scale, press the **ON** button to turn the scale on.
2. Wait until "0.0" LB or "0.0" KG appears on the display.
3. Ask the parent to step onto the scale without the child. The display will show a value for the parent's weight.
4. Have the parent remain standing on the scale and press the **ZERO** button. The word "TARE" or "UNDER" will appear on the display, followed by "0.0" LB or "0.0" KG.
5. Place the child into the parent's arms. The scale will automatically deduct the weight of the parent and only display the child's weight.
6. When the parent steps off of the scale, "under" will be temporally displayed and then the display will return to "0.0" LB or "0.0" KG.7.
7. Press **TARE** after weighing process is complete to return to normal weighing mode.

MAINTENANCE

Maintenance

The following pages provide instructions for maintenance, cleaning, calibration, and troubleshooting for the 349KLX scale. Maintenance operations other than those described in this manual should be performed by qualified service personnel.

Caution: Before first use, or after long periods of non-use, check the scale for proper operation and function. If the scale does not operate correctly, refer to qualified service personnel.

1. Check overall appearance of the scale for obvious damage, wear, and tear.

2. Inspect the AC adapter for cord cracking or fraying, or for broken/bent prongs.

Note: This scale is an extremely sensitive weighing device. If the auto-off function is disabled, battery power will be consumed at a rapid rate.

Cleaning

Proper care and cleaning is essential to ensure a long life of accurate and effective operation.

Caution: Disconnect the scale from the AC power source prior to cleaning the unit.

1. Clean all external surfaces with a clean damp cloth. Mild antimicrobial or antibacterial soap and water solution may be used. Dry with a clean soft cloth.

2. Do not immerse the scale into cleaning or other liquid solutions.

3. Do not use Isopropyl Alcohol or other solutions to clean the display surface.

4. Do not use abrasive cleaners.

CALIBRATION

Calibration

This scale has been factory calibrated and does not require calibration prior to use. If required, the scale can be calibrated. Calibration of the 349KLX scale is performed using certified weights. 50 / 100 / 200 / 400 lbs are employed as the calibration standards. The scale can only be calibrated in pounds (lb).

Caution: To avoid injury, use extreme care when stacking weights on platform.

Scale Calibration

ACTION	DISPLAY SHOWS
Press and hold the **lb./kg** and **ZERO** buttons at the same time, then press the **ON** button to power on the scale. "349" will briefly appear on the display, followed by "CAL" and "UXX". (Two alphanumeric characters will appear next to "U".) Release all three buttons. Several alphanumeric characters will appear on the display (1-4 characters can be displayed during calibration).	"349" followed by "UXX" then "XXXX"
Press the **ZERO** button, and "C-50" will flash on the display, followed by several alphanumeric characters.	"C-50" then "XXXX"
Place 50 lbs on the scale. Several alphanumeric characters will appear. When calibration characters stabilize, press the **ZERO** button. "C-100" will appear on the display, followed by several alphanumeric characters.	"XXXX" followed by "C-100" then "XXXX"
Place 100 lbs on the scale. Several alphanumeric characters will appear. When calibration characters stabilize, press the **ZERO** button. "C-200" will appear on the display, followed by several alphanumeric characters.	"XXXX" followed by "C-200" then "XXXX"
Place 200 lbs on the scale. Several alphanumeric characters will appear. When calibration characters stabilize, press the **ZERO** button. "C-400" will appear on the display, followed by several alphanumeric characters.	"XXXX" followed by "C-400" then "XXXX"
Place 400 lbs on the scale. Several alphanumeric characters will appear. When calibration characters stabilize, press the **ZERO** button. "END" will appear on the display, followed by "OFF". The scale will automatically shut off.	"XXXX" followed by "END" then "OFF"

TROUBLESHOOTING

Troubleshooting

Before contacting service personnel, refer to the following instructions to check and correct any failures.

Symptom	Possible Cause	Corrective Action
Scale does not power on	1. Dead batteries	1. Replace batteries
	2. Faulty electrical outlet	2. Use a different outlet
	3. Bad power supply	3. Replace AC adapter
Questionable weight or the scale does not zero	1. External object interfering with the scale	1. Remove interfering object from the scale
	2. The display did not show "0.0" before weighing	2. Ask the patient to get off the scale, zero the scale and begin weighing process again
	3. Scale is not placed on a level floor	3. Place the scale on a level floor and begin weighing process again
	4. Scale is out of calibration	4. Check weight with known weight value
Weighing is performed but the weighing process takes too long and the weight does not lock on the display	The patient is not standing still	Ask the patient to stand still
The display shows "Over" message	The load on the scale exceeds the capacity (400 lb / 180 kg)	Remove the excess weight and use the scale according to its limits
The display shows "Lo" message	The batteries are discharged	Replace batteries according to instructions

WARRANTY

Limited Warranty

What does the Warranty Cover?

This Health o meter® Professional scal is warranted from date of purchase against defects of materials or in workmanship for a period of two (2) years. If product fails to function properly, return the product, freight prepaid and properly packed to Pelstar, LLC (see "To Get Warranty Service", below, for instructions). If the manufacturer determines that a defect of material or in workmanship exists, the customer's sole remedy will be replacement of the scale at no charge. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. All replaced parts are covered only for the original warranty period.

Who is Covered?

The original purchaser of the product must have proof of purchase to receive warranty service. Please save your invoice or receipt. Pelstar dealers or retail stores selling Pelstar products do not have the right to alter, or modify or any way change the terms and conditions of this warranty.

What is Excluded?

Your warranty does not cover normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, use on improper voltage or current, use contrary to the operating instructions, abuse including tampering, damage in transit, or unauthorized repair or alternations. Further, the warranty does not cover natural disasters, such as fire, flood, hurricanes and tornadoes. This warranty gives you specific legal rights, and you may also have other rights that vary from country to country, state to state, province to province or jurisdiction to jurisdiction.

To get Warranty Service make sure you keep your sales receipt or document showing proof of purchase. Call (+1) 800-638-3722 or (+1) 708-377-0600 to receive a return authorization (RA) number, which must be included on the return label. Attach your proof of purchase to your defective product along with your name, address, daytime telephone number and description of the problem. Carefully package the product and send with shipping and insurance prepaid to:

Pelstar, LLC

Attention R/A#_____

Return Department

9500 West 55th St.

McCook, IL 60525

PELSTAR, LLC

9500 West 55th St • McCook, IL 60525 • USA

1-800-638-3722 or 1-708-377-0600

PLEASE REGISTER YOUR SCALE FOR WARRANTY COVERAGE AT:

www.homscales.com

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ISO13485:2003 CERTIFIED

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