

**Health o meter<sup>®</sup>**  
**P r o f e s s i o n a l**

## **Model 349KLX Remote Display Digital Scale**



## **User Instructions**

P/N UM349KLX Rev 3-080713

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.

## TABLE OF CONTENTS

Caution and Warning.....	3
Specifications for This Scale .....	4
Certifications / Connectivity / Disposal .....	5
Assembly Instructions 349KLX Scale .....	6
Display Assembly Wall Mount Instructions.....	10
Setup / Battery / Transport .....	12
Quick Start Instructions .....	16
Maintenance.....	20
Calibration .....	21
Troubleshooting .....	22
Warranty.....	23

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

Please register your scale for warranty coverage at:

<http://www.homscales.com/customer/registration.aspx>

For User Instructions updates and revisions please go to:

<http://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 battery 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 only be performed by authorized Health o meter® Professional service personnel.
- When replacing / inserting the battery, be sure to use a new 9V battery.
- To prevent patient injury, the patient must be attended to throughout the entire weighing event.

### **When operating this scale with the optional 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 precision 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 in order to determine the actual weight of a moving patient.

Weight can be displayed in pounds (lb) or in kilograms (kg). For privacy and convenience in use, 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 (not included), or by 9V battery (included).**

## 349KLX Scale Specifications

Capacity and Resolution	400 lb x 0.2 lb (180 kg x 0.01 kg)	
Power Requirements	120 VAC, 60Hz - 9V DC adapter or 9V battery	
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	<b>Platform</b> Length: 12" (30.5 cm) Width: 12.5" (30.5 cm) Height: 2.875" (5.8 cm) Weight: 8.8 lb (4.0 kg)	<b>Display assembly</b> Length: 6.3" (16.0 cm) Width: 1.3" (3.4 cm) Height: 3.25" (8.3 cm) Weight: 0.3 lb (0.14 kg)

# CERTIFICATIONS / CONNECTIVITY / DISPOSAL

## Certification Descriptions

	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 Connectivity Information

To enable reliable transmission of weight, this scale is designed to connect to a computer, monitor, or other electronic device via a built-in RS-232 serial port. This connectivity helps minimize a source of potential medical errors caused by incorrectly copying and then recording patient data.

This scale is EMR-EHR compatible. For more information regarding how to connect this scale to other electronic devices, please contact Health o meter® Professional Scales Technical Support, available during normal business hours at (+1) 800-638-3722.

## 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.

# 349KLX 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
- (1) Display bracket
- (1) 9V battery
- (1) User instructions
- (2) #8 Anchoring screws (4.2 mm nominal OD)
- (2) Mounting anchors, compatible with wall construction

## **Tools Required**

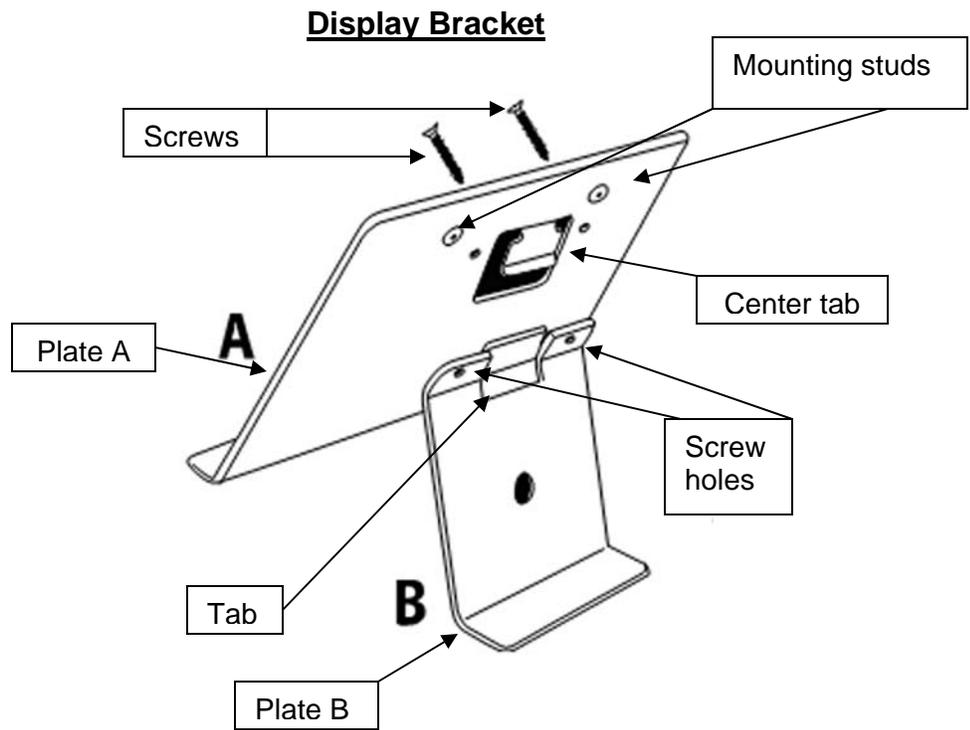
Phillips head screwdriver (not included)

## 349KLX ASSEMBLY INSTRUCTIONS (CONTINUED)

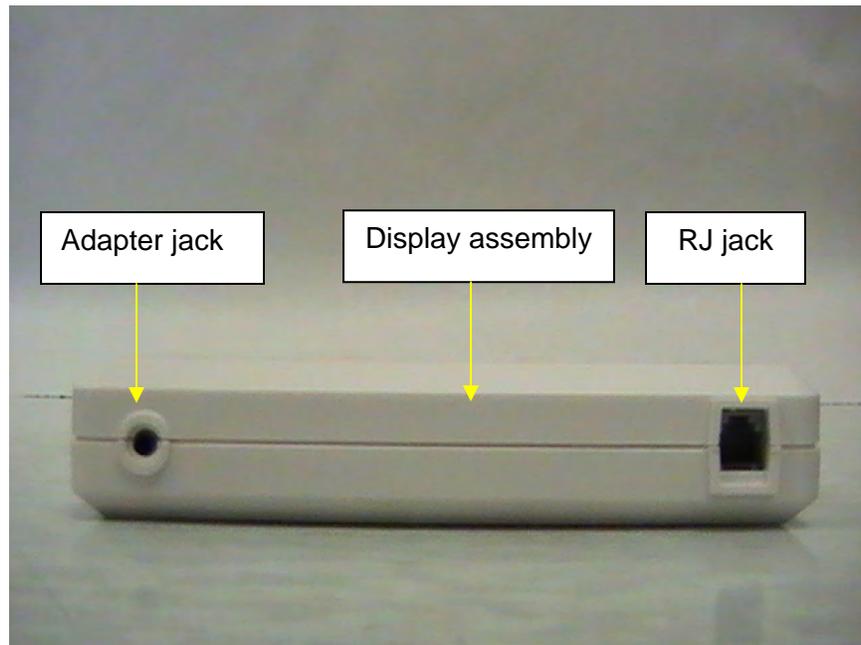
### **Assembling the 349KLX Scale (Refer to Figures 1- 4)**

1. Carefully remove the scale platform and display assembly from the carton, and place the scale platform and display assembly on a flat, level, and dry surface (see Figure 3).
2. Connect the cable to the display assembly RJ jack (see Figures 2 & 3).
3. Remove the display bracket from the carton (see Figure 1).
4. Remove the two small screws from plate B (see Figure 1).
5. While holding plate A, slide the tab of plate B up and under the center tab on the back of plate A (see Figure 1).
6. Align plate A and plate B, and ensure that the screw holes are lined up (see Figure 1).
7. Insert the two small screws into the front of plate A and through the holes in plate B (see Figure 1).
8. Using a Phillips head screwdriver, tighten the screws to secure plate A to plate B (see Figure 1).
9. Slide the two mounting studs on the display bracket into the two mounting holes in the back of the display assembly (see Figures 1 & 4). The display bracket is now ready for use.

# 349KLX ASSEMBLY INSTRUCTIONS (CONTINUED)

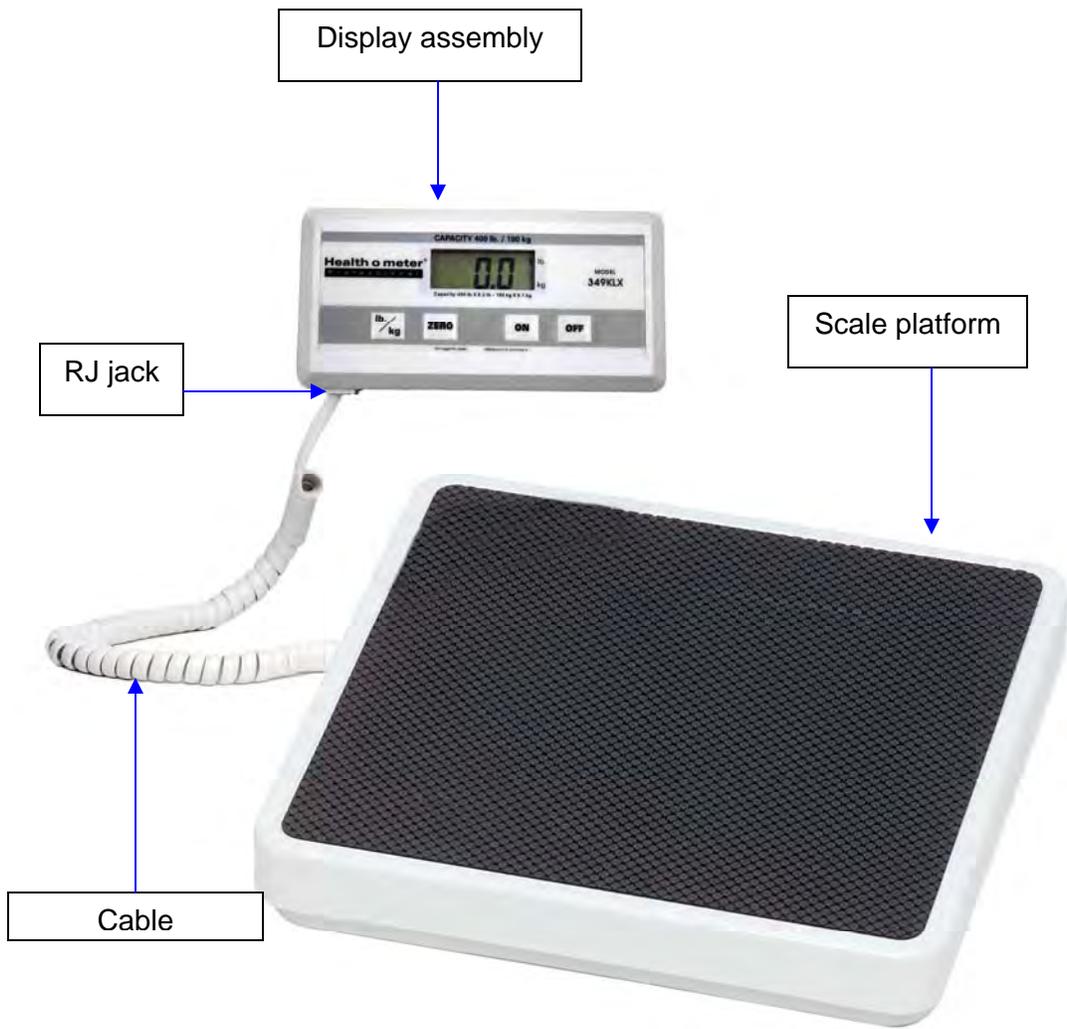


**Figure 1**



**Figure 2**

# 349KLX ASSEMBLY INSTRUCTIONS (CONTINUED)



**Figure 3**

# DISPLAY ASSEMBLY WALL MOUNT INSTRUCTIONS

## **Display Assembly Wall Mounting Instructions (Refer to Figure 4)**

**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 outline.
2. Mark a level horizontal line,  $\frac{3}{4}$ " (19 mm) below the top of the display outline.
3. Mark a vertical line 2- $\frac{1}{4}$ " (57.2 mm) from each side of the display outline.
4. Use the appropriate plastic or metal anchors for the type of wall construction.
5. At the horizontal and vertical intersection, carefully drill the appropriate size hole.
6. Insert the anchors into the wall, and screw the two mounting screws into the anchors. Adjust the screw head depth such that the screw heads protrude  $\frac{1}{8}$ " (3.2 mm) from the wall.

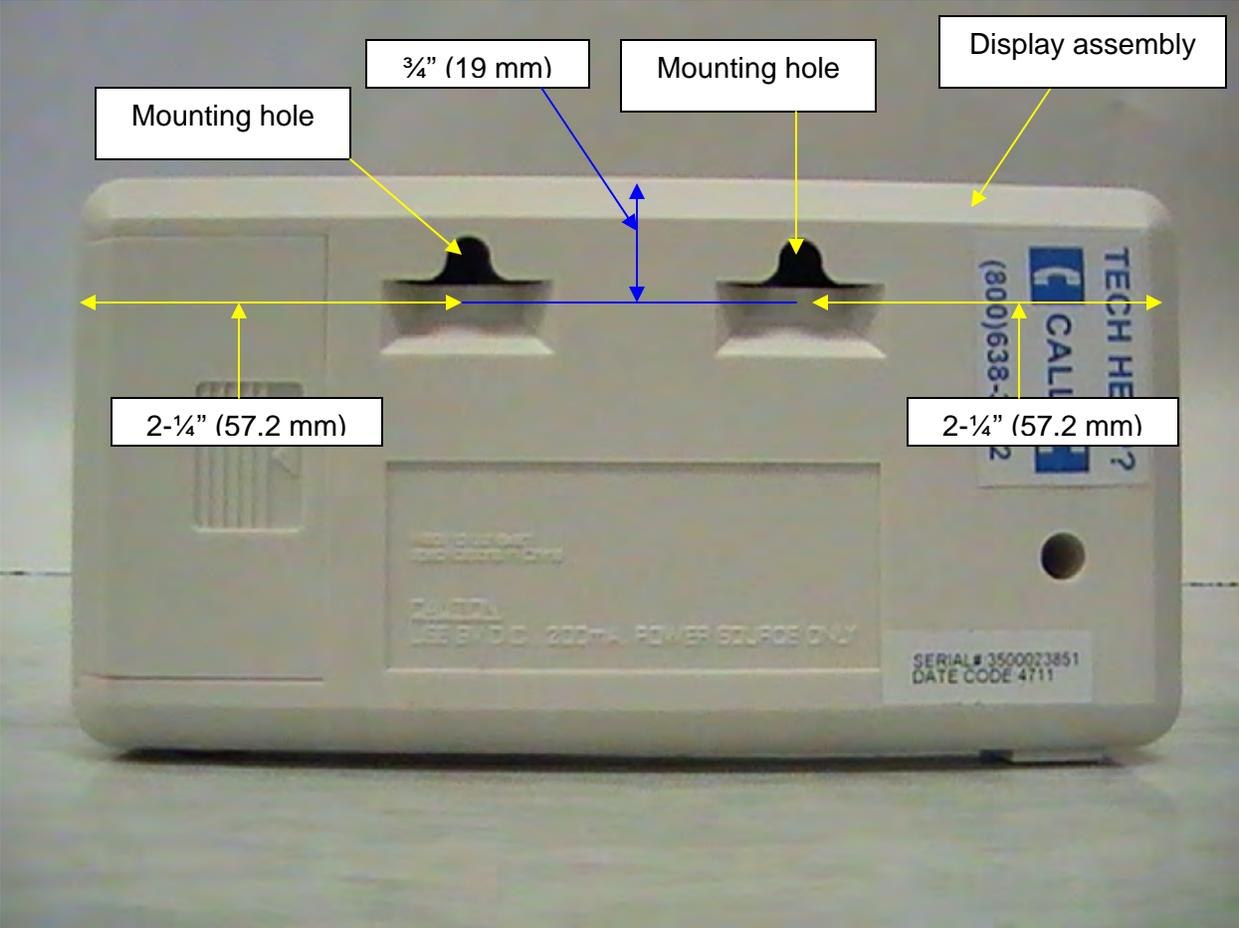
**Warning:** Extending the screw heads beyond  $\frac{1}{8}$ " (3.2 mm) can damage the display assembly.

7. Position the display assembly mounting holes onto the mounting screws, and carefully pull down on the display assembly to secure.

## **Required Parts**

- (1) Display assembly
- (2) #8 Anchoring screws (4.2 mm nominal OD)
- (2) Mounting anchors, compatible with wall construction

# DISPLAY ASSEMBLY WALL MOUNT INSTRUCTIONS (CONT)



**Figure 4**

# SETUP / BATTERY / TRANSPORT

## Preparing the 349KLX Scale for Use

### Replacing / Inserting Battery

1. Unplug the AC adapter from the power source.
2. Remove the battery cover on the side of the display assembly by sliding the battery cover out (see Figure 5).
3. Replace or install the battery (Figure 6).

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

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

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

### Optional AC Adapter

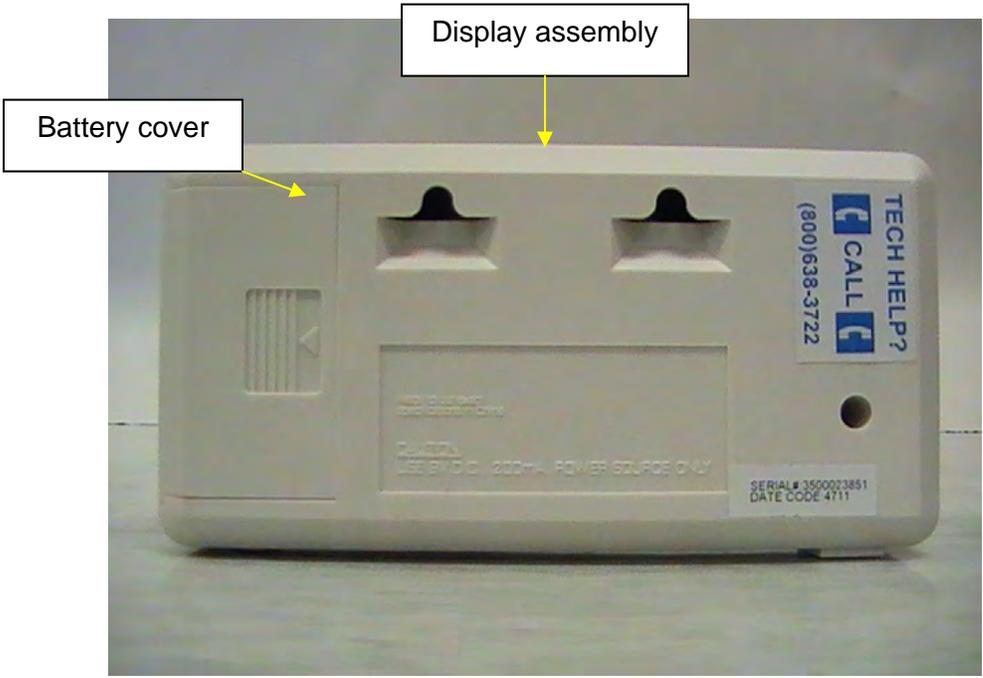
1. Remove the protective plastic film covering the display (the film says “FACTORY CALIBRATED”).
2. Place battery into the battery holder (see Figure 5).
3. Connect the optional AC adapter into adapter jack on the display assembly (see Figure 2).

**Warning:** To avoid a safety hazard, use AC adapter model ADPT40.

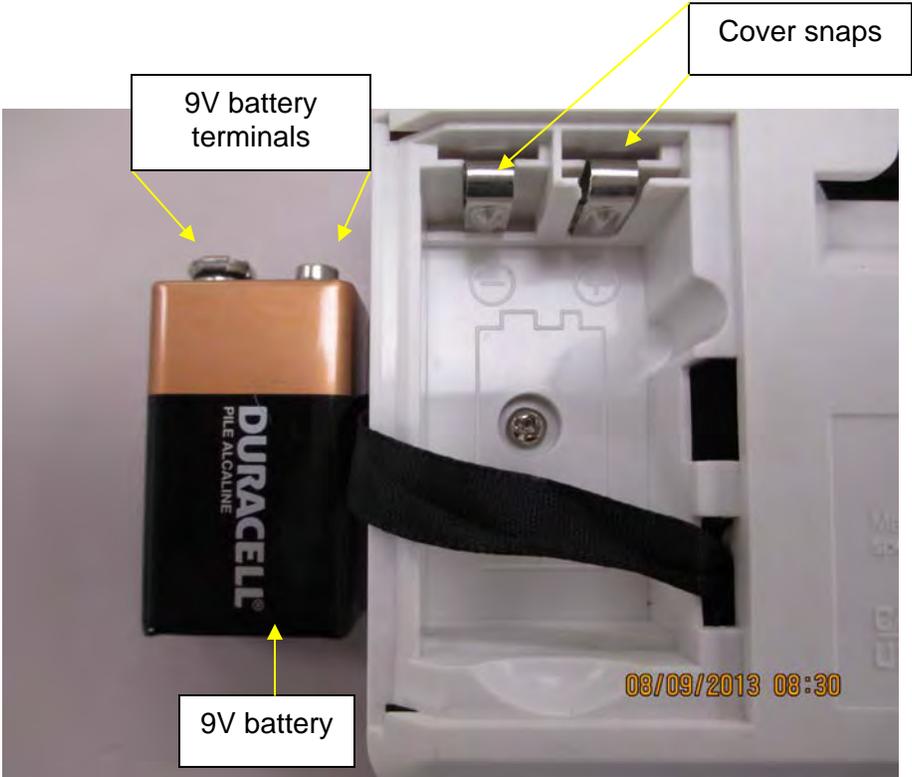
4. Plug the scale’s AC adapter into the power source.
5. Ensure all objects are removed from the scale’s assembly, and then press the **ON** button to power the scale on. The display will show “349”, then “0.0” lb. Press the **lb. /kg** button to select the weight mode (lb or kg).
6. When the AC adapter is disconnected from the scale, the scale will switch to battery power if battery is installed.

**Note:** If the set up procedure failed, refer to the troubleshooting instructions. If the problem is not corrected, refer to qualified service personnel.

**SETUP / BATTERY / TRANSPORT (CONTINUED)**



**Figure 5**



**Figure 6**

## SETUP / BATTERY / TRANSPORT (CONTINUED)

### **Preparing a 349KL Scale for Transport**

This scale can be easily placed into carrying case (# 64771) for storage, or transport from one room to another. This scale does not include the carrying case item # 64771, and must be acquired separately (see Figure 7). To prepare the scale for transport, follow these steps:

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 (see Figure 8).
4. With the scale platform on the floor, lift scale platform carefully and place scale platform into the carrying case. Position scale platform such that the RS-232 serial port and cable are facing up (see Figure 8).
5. Close carrying case flap over the scale (see Figure 7).
6. Grasp the carrying case strap and lift carefully into the upright position. Position the strap over a shoulder (see Figure 9). The scale can now be transported.

### **Required Parts**

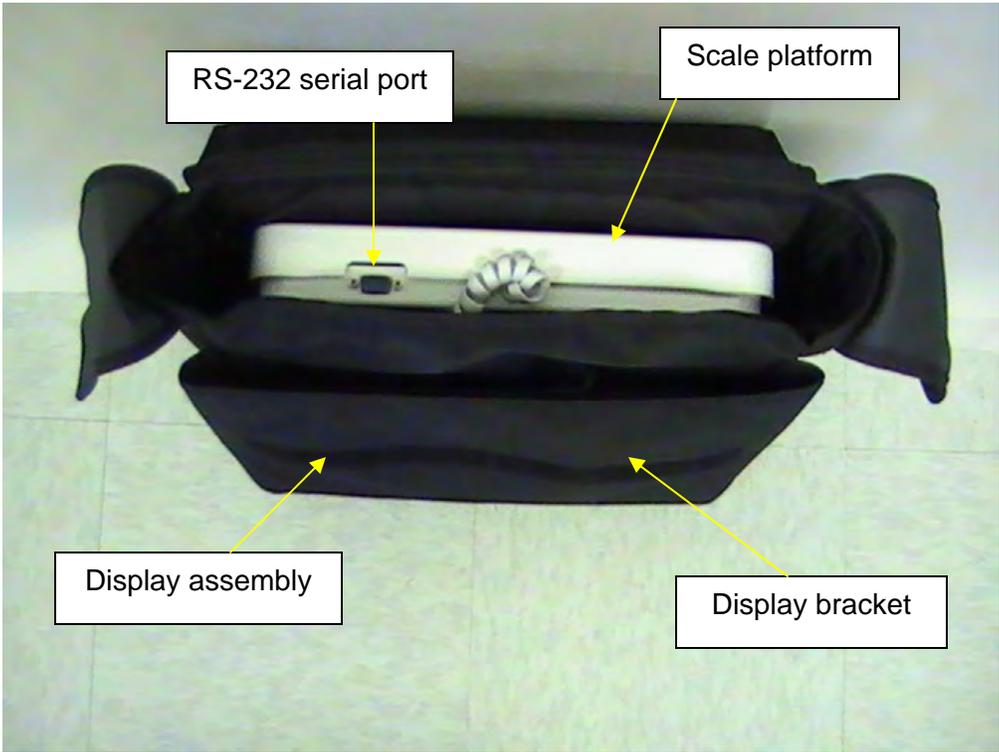
- (1) Display assembly
- (1) Scale platform
- (1) Display bracket
- (1) Carrying case (# 64771)

**Note:** Carrying case item # 64771 is not included.



**Figure 7**

**SETUP / BATTERY / TRANSPORT (CONTINUED)**



**Figure 8**



**Figure 9**

# QUICK START / OPERATING INSTRUCTIONS

## Keypad



Figure 10

Function	Description
<b>ON</b>	Powers scale on.
<b>OFF</b>	Powers scale off.
<b>ZERO</b>	Tares the scale prior to weighing (0.0).
<b>lb. / kg</b>	Toggles between pounds (lb) and kilograms (kg).

# QUICK START / OPERATING INSTRUCTIONS (CONT)

## **Auto-Off Function**

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

**Note:** Ensure cable is attached to the display assembly RJ jack, and make sure there is no object on the scale platform.

## **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.

## **Units of weight:**

1. Press the **ON** button to power the scale on.
2. Wait for "0.0" lb to appear on the display.
3. Press and release the **lb./kg** button to operate the scale in the selected mode. The selected units of measure will appear on the right side of display.
4. Repeat step 3 to toggle the weighing mode to a different unit of measure.

## **KG and LB Lock Out**

**Note:** The default weighing mode for this scale can be changed from LB/KG to KG only or LB only.

## QUICK START / OPERATING INSTRUCTIONS (CONT)

### **To Change Weighing Mode:**

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.

### **Weighing a Patient**

**Note:** When this scale is powered on, it will always default to pounds (lb) or kilograms (kg).

1. Make sure there is no object on the scale platform.
2. Press the **ON** button to power the display assembly on.
3. Wait until the "0.0" lb appears on the display.
4. Press the **ZERO** button to zero the scale, if necessary.
5. Depending on the movement of the patient on the scale, it may take several seconds for the scale to lock onto the weight.

**Caution: To prevent patient injury, the patient must be attended throughout the entire weighing event.**

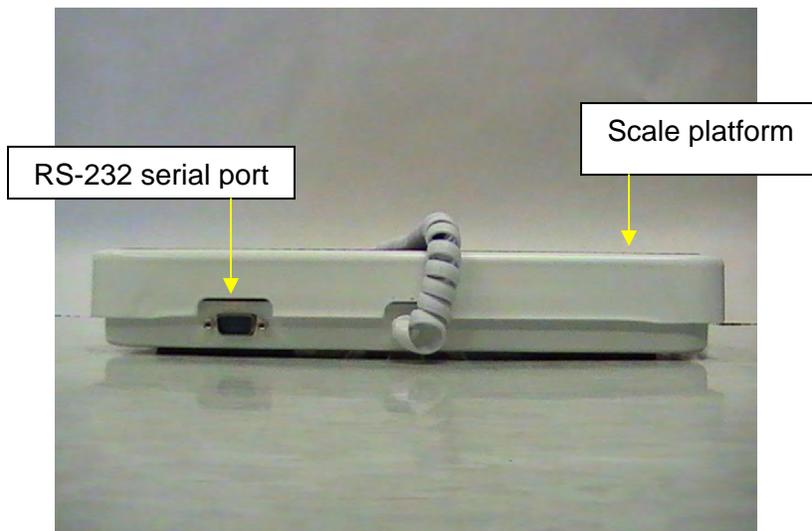
6. After the weight measurement has been taken and recorded, have the patient step off the scale.
7. Press the **OFF** button to power the scale off.

### **Connection to Another Medical Device (Optional)**

**Warning:** 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.

The 349KLX scale is able to connect to other medical devices, such as the Welch Allyn<sup>®</sup> Spot Vital Signs<sup>®</sup> Lxi Monitor. To connect to another medical device, use the RS-232 serial port, located on the scale platform.

## QUICK START / OPERATING INSTRUCTIONS (CONT)



**Figure 11**

### **Zero Function**

When using this scale, the weight of an object, can be zeroed out allowing additional weight to be added and displayed. The zero function automatically performs this subtraction.

**Note:** Ensure cable is attached to the display assembly RJ jack, and make sure there is no object on the scale platform.

### **Zero (Push Button)**

1. With all weight off the scale, press the **ON** button to power on the scale.
2. Wait until the "0.0" lb or appears on the display.
3. Place the object on the scale. The display will show a value for the object's weight.
4. Press the **ZERO** button. The word "TARE" will appear on the display assembly, followed by "0.0" lb.
5. Place additional item (object) on the platform and only the weight of the additional item will be displayed.
6. When you remove the item from the platform the displayed will return to "0.0" lb

# 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 total scale for any 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.

## **Cleaning**

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

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

1. Clean all external surfaces with a clean damp cloth or tissue. 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 calibration weights. 50 / 100 / 200 / 400 lbs are employed as the calibration standards.

## Scale Calibration

ACTION	DISPLAY SHOWS
Press and hold the <b>lb/kg</b> and <b>ZERO</b> buttons at the same time, then press the <b>ON</b> button to power on the scale. "349" will briefly appear on the display, followed by "CAL" and "U13". Release all three buttons. Several alphanumeric characters shall appear on the display (1-4 characters can be displayed during calibration).	"349" followed by "U 13" then "XXXX"
Press the <b>ZERO</b> 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 <b>ZERO</b> 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 <b>ZERO</b> 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 <b>ZERO</b> 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 <b>ZERO</b> 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 to correct any failures.

<b>Symptom</b>	<b>Possible Cause</b>	<b>Corrective Action</b>
Scale does not power on	<ol style="list-style-type: none"> <li>1. Dead battery</li> <li>2. Faulty electrical outlet</li> <li>3. Bad power supply</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace battery</li> <li>2. Use a different outlet</li> <li>3. Replace AC adapter</li> </ol>
Questionable weight or the scale does not zero	<ol style="list-style-type: none"> <li>1. External object interfering with the scale</li> <li>2. The display did not show "0.0" before weighing</li> <li>3. Scale is not placed on a level floor</li> <li>4. Scale is out of calibration</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove interfering object from the scale</li> <li>2. Ask the patient to get off the scale, zero the scale and begin weighing process again</li> <li>3. Place the scale on a level floor and begin weighing process again</li> <li>4. Check weight with known weight value</li> </ol>
Weighing is performed but the weighing process takes too long and the weight does not lock on the displayed	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 battery is discharged	Replace battery according to instructions

# WARRANTY

## Limited Warranty

### **What does the Warranty Cover?**

Health o meter<sup>®</sup> Professional scales are 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 repair or 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 parts including repaired and 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 55<sup>th</sup> St.  
McCook, IL 60525

If your scale is not covered by warranty, or has been damaged, an estimate of repair costs or replacement costs will be provided to you for approval, prior to servicing or replacing.



**PELSTAR, LLC**

**9500 West 55<sup>th</sup> St • McCook, IL 60525 • USA**

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

PLEASE REGISTER YOUR SCALE FOR WARRANTY COVERAGE AT:  
<http://www.homscales.com/customers/registration.aspx>

Health o meter<sup>®</sup> is a registered trademark of Sunbeam Products, Inc. used under license.

Health o meter<sup>®</sup> Professional products are manufactured, designed, and owned by Pelstar, LLC.

We reserve the right to improve, enhance, or modify Health o meter<sup>®</sup> Professional product features or specifications without notice.

© Pelstar, LLC 2013



P/N UM349KLX Rev 3-080713