

# Health o meter<sup>®</sup>

P r o f e s s i o n a l

## Model 3400KL / 3401KL / 3400KG / 3400KG-C Digital Wet Diaper / Lap Sponge / Organ Scale



3400KL / 3400KG / 3400KG-C



3401KL

## User Instructions



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[www.hom scales.com](http://www.hom scales.com)

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P/N UM3400KL\_3401KL\_3400KG\_3400KG-C REV20180312

# Health o meter®

P r o f e s s i o n a l

Model 3400KL / 3401KL / 3400KG / 3400KG-C

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

## TABLE OF CONTENTS

Cautions and Warnings.....	3
Specifications .....	4
Certifications / Connectivity / Disposal .....	5
Set Up Instructions .....	6
Operating Instructions .....	8
Maintenance.....	10
Calibration .....	11
Troubleshooting .....	12
Warranty.....	13

**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/product-support/technical-support/product-warranty-registration](http://www.homscales.com/product-support/technical-support/product-warranty-registration)

For User Instructions updates and revisions please go to:

[www.homscales.com](http://www.homscales.com)

# CAUTIONS AND WARNINGS

## **Intended use**

The Health o meter® Professional Digital Wet Diaper / Lap Sponge / Organ scale is intended to be used in a professional medical environment to weigh diapers or specimens. It is not intended for weighing pediatric patients. Do not modify the product or use it for anything other than its intended purpose.

## **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 the weight capacity specified for this scale.
- Do not use in the presence of flammable or explosive materials.
- For accurate weighing, if the "LOW BATTERY" indicator appears, connect the battery charger to recharge the battery.
- If the scale becomes damaged, it should not be operated until properly serviced.
- Do NOT put scale base into an autoclave. Only the weighing pan/tray can be put into an autoclave for sterilization.
- Operate this scale exclusively with the 6V rechargeable battery included with the scale. Use of an unspecified battery will void the warranty and can pose a serious safety hazard.
- Charge the battery on a regular basis to ensure it is always ready for use.

## **When using the battery charger:**

- Do not use an unspecified battery charger with this scale. Use only the battery charger provided with this scale by Health o meter® Professional Scales. Use of an unspecified power source will void the warranty and can pose a serious safety hazard.
- Prior to using this scale, inspect the battery charger cord for cracking / fraying, or for broken / bent plug prongs.
- Prior to using the battery charger, ensure that it is plugged into an outlet with the rated voltage appropriate for operation. The battery charger is rated as follows: 100-240V AC.
- Ensure that the battery charger outlet is wired to a circuit breaker or other protected power source.
- Ensure that the battery charger and scale are not used or stored in excessive temperatures or excessive humidity. Do not immerse the scale or battery charger in liquids. For cleaning instructions, see the Maintenance section on page 10.
- **Do not continuously power the scale via the battery charger as it may shorten the life of the battery.**



**WARNING! DO NOT OPEN! RISK OF SHORT CIRCUIT!**



**CAUTION: To reduce the risk of any short circuit in your scale, do not open the scale or substitute any of its parts for others.**

**NOTE: Any change or modification made to the scale of any of its parts or components will void the warranty.**

**In no event whatsoever shall Pelstar, LLC be liable for damages or injuries arising from or connected with the assembly, use, or misuse of its products.**

# SPECIFICATIONS

## General

The Health o meter® Professional Digital Wet Diaper / Lap Sponge / Organ scales use 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.


Weight can be displayed in ounces or in grams.

## Scale Specifications

Capacity and Resolution	3400KL / 3401KL: 176oz x 0.1oz (5000g x 1g) 3400KG / 3400KG-C: 5000g x 1g	
Power Requirements	100 – 240V AC battery charger / 6V rechargeable battery (included)	
Environmental	Operating temperatures: 14°F to 104°F (-10°C to 40°C) Storage temperatures: -4°F to 122°F (-20°C to 50°C)	
Physical Dimensions	<b>Weighing Pan</b> Width: 10" (254 mm) Depth: 9 7/8" (250 mm) Height: 2 1/2" (64 mm)	<b>Weighing Tray</b> Width: 7 3/4" (197mm) Depth: 9 3/4" (248 mm) Height: 5/8" (16mm)
	<b>Scale Base</b> Width: 11 1/2" (292 mm) Depth: 9 7/8" (250 mm) Height: 5 1/4" (133 mm) Weight: 8.6875lb (3.9kg)	

# CERTIFICATIONS / CONNECTIVITY / DISPOSAL

## Certification Descriptions

	<p>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.</p>
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## Scale Disposal



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

# SET UP INSTRUCTIONS

## **Before Set Up**

Each Health o meter® Professional Digital Wet Diaper / Lap Sponge / Organ scale is shipped assembled 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.

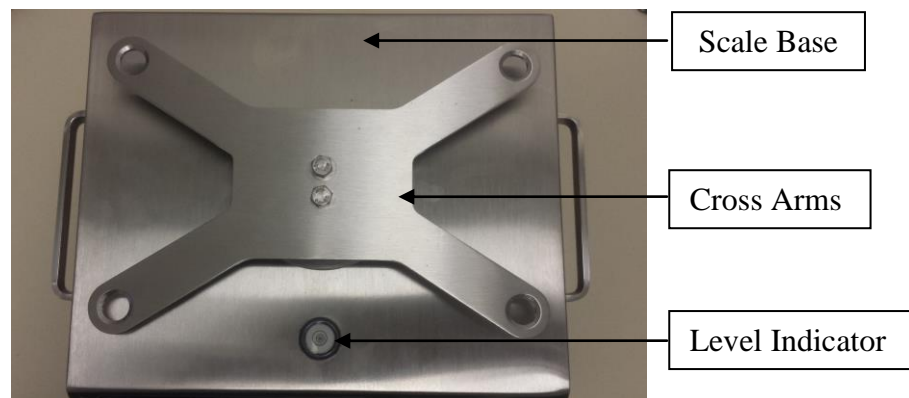
To prevent scratching any components, carefully remove each assembly from the carton and unwrap the packing materials. Set the carton aside for storage. To avoid damaging the scale parts when unpacking, do not use a box cutter, knife, scissors, or any sharp object to open the protective inner packaging.

## **Carton Contents**

- (1) Scale base, including 6V rechargeable battery
- (1) Stainless steel weighing pan (3400KL / 3400KG / 3400KG-C) or tray (3401KL)
- (1) Battery charger
- (1) User instructions

## **Attaching the Weighing Pan/Tray**

1. Place the scale on a sturdy surface free from vibration. Use the adjustable leveling feet and the level indicator to level the scale.





2. Locate the positioning pins on the underside of the weighing pan/tray. Align the pins on the bottom of the pan/tray with the holes on the cross arms of the scale's base. Gently place the pins into the holes until level and secure. Ensure all four pins are placed entirely through holes, as shown below.



## SET UP INSTRUCTIONS (CONT.)

### Powering the Scale

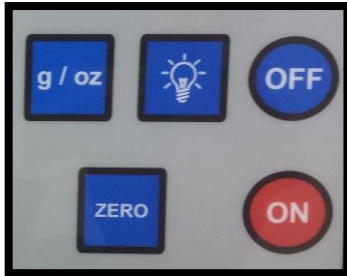
The scale is powered via its built-in 6V battery. The scale is not to be continuously powered via the battery charger. Follow the instructions below to charge the scale's battery.


<p>1. Locate the battery charger port on the underside of the scale base.</p>	
<p>2. Insert the battery charger fully into the port. To charge the scale's battery, connect the battery charger for approximately 10 hours with the scale turned off. Once charged, continuous use of the battery may last up to 100 hours (with backlight) or 200 hours (without backlight).</p>	

**Note:** Do not continuously power the scale via the battery charger as it may shorten the life of the battery.

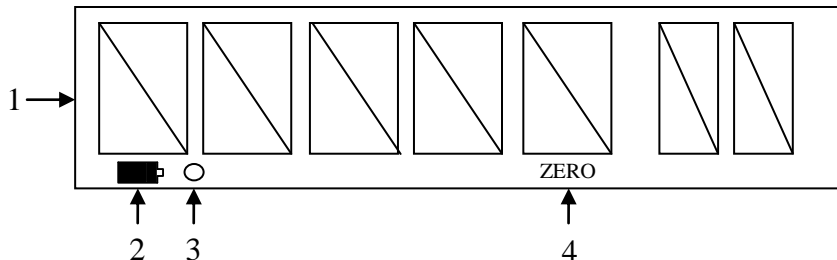
# OPERATING INSTRUCTIONS

## Keypad Functions



Function	Description
<b>g/oz</b>	Changes weight measurement to grams or ounces. <b>Note:</b> 3400KG and 3400KG-C will only display weight in grams.
	Activates the display's backlight.
<b>OFF</b>	Turns off the scale.
<b>ZERO</b>	Returns the scale to zero. Or used to subtract a weight in the Tare function.
<b>ON</b>	Turns on the scale.

## Display Indicators



1. **ALPHANUMERIC INDICATOR:** Shows the product's weight in grams or ounces. The alphanumeric indicator can show the following messages:
  - "g" or "oz": Indicates the measuring unit used. **Note:** 3400KG and 3400KG-C will only display weight in grams.
  - OVERLOAD: Appears when the scale's capacity is exceeded.
  - NEG: Appears after an object has been tared.
  - LOWBAT: Is shown if the battery doesn't have enough charge.
  - HELP: Is shown when the load cell is damaged or scale is malfunctioning.
2. **LOW BATTERY INDICATOR:** Is shown as a warning that a battery recharge is needed.
3. **BATTERY CHARGER:** When the battery charger is connected, the display's indicator is illuminated.
4. **"ZERO" Indicator:** This indicates that the scale is ready to weigh an item. This will disappear when a weight is detected.



# OPERATING INSTRUCTIONS (CONT)

## Weighing an Item

1. Press the **ON** button to turn on the scale.
2. Place the item onto the weighing surface and the weight will be shown in the display.
3. Record the weight and remove the item.

## Tare Instructions

Use the **ZERO** button to tare/subtract the weight of an object, such as a bowl, from the weight of the item to be weighed.

1. With the scale on, place the object to be tared on the weighing surface. Wait for the weight to be displayed, then press the **ZERO** button. The object can be removed or remain on the scale. If the object is removed, the display will show "NEG". If the object remains on the scale the display will show "0.0".
2. After the scale displays "0" or "NEG", place the desired item to be weighed onto the weighing surface. The scale will display only the weight of the item.

Example: To subtract the weight of a container to determine the weight of a specimen.

1. With the scale on, place a dry, clean container on the weighing surface. The display will show the weight of the container.
  2. Press the **ZERO** button to tare the weight of the container.
  3. With the container on the scale, place the specimen into the container. The scale will automatically deduct the tared weight of the container and display on the weight of the specimen.
3. To clear a tared weight, remove all objects from the weighing surface and press the **ZERO** button.

**Note: If the scale is powered on with an item on the weighing surface, the item will automatically be tared.**

## Backlight Function

- If there is no weight on the scale and the battery charger is not plugged in, the Backlight will turn off after approximately 5 minutes of the scale not being used.
- Backlight will not function when battery is low.
- When the battery charger is connected and the scale is on, the Backlight will automatically turn on.

## Power Timer Function

- If there is no weight on the scale and the battery charger is not plugged in, the scale will turn off after approximately 15 minutes of not being used.
- To continue using the scale, press the **ON** button again.

## Low Battery Indicator

- If the battery does not have enough charge, the low battery indicator will appear on the display.
- If the message "LOW BAT" appears in the display, the scale will stop functioning. In that situation, it must be connected to the battery charger to recharge.
- Approximate time to fully recharge the battery is 10 hours.

# MAINTENANCE

## **Maintenance**

The following pages provide instructions for maintenance, cleaning, and troubleshooting. Maintenance operations other than those described in this manual should be performed by qualified service personnel such as Biomedical or Engineering.

**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 any obvious damage, wear, and tear.
2. Inspect the battery charger card for cracking or fraying, or for broken/bent prongs.

## **Cleaning the Scale Base**

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

**Caution: Disconnect the scale from the battery charger prior to cleaning the unit.**

1. Clean all external surfaces with a clean damp cloth. Mild antimicrobial soap and water solution may be used. Dry with a clean soft cloth.
2. Do not immerse the scale in liquids.
3. Do not use Isopropyl Alcohol or other solutions to clean the display surface.
4. Do not use abrasive cleaners or materials that may scratch the surface.

**WARNING: Do NOT put scale base into an autoclave.**

## **Cleaning the Weighing Pan/Tray**

1. Clean all external surfaces with a clean damp cloth. Antibacterial soap and water solution may be used. Dry with a clean soft cloth and ensure that the item is thoroughly dried.
2. Pan/tray may be placed into an autoclave or submerged in liquids for sterilization. Ensure that the item is thoroughly dried after cleaning.
3. Do not use abrasive cleaners or materials that may scratch the surface.

## **Replacement Parts/Accessories**





Replacement parts and additional accessories are available. Contact Health o meter Professional Scales Customer Service at 1-800-815-6615 to inquire about availability.

<b>Part #</b>	<b>Description</b>
3400PAN	3-pack pans
3400TRAY	3-pack flat trays
3400ADPT	Battery charger

# CALIBRATION

**This scale has been factory calibrated, and does not require calibration prior to use.** If required, the scale can be calibrated. Calibration of your scale is performed using grams. 5000 grams are required for calibration

**Note: Only weights certified and traceable to national standards should be used for calibration procedures.**

ACTION	DISPLAY SHOWS
Place the scale on a flat surface without movement or vibration. Turn on the scale.	'-----'
While the lines appear on the display, press the following key sequence:  <b>g/oz, , ZERO, ZERO</b>  <b>Note: Sequence must be entered while the lines appear on the display.</b> "CODE" will appear on the display.	"CODE"
Once "CODE" appears on the display, enter the calibration sequence:  <b>g/oz, ZERO, ZERO, g/oz, ZERO, ZERO</b>  "100100" will appear on the display. Press  to accept.	"100100"
"RZERO" will appear on the display to prompt the scale to take the zero reference. Ensure that the weighing pan or tray is on the scale with no load, then press  .	"RZERO"
The display will count down from 5 to 0. If the scale detects any movement, it will display the "UNSTAB" message and the countdown will be reset until reference to zero is stable. After the countdown is finished the "LOAD" message will be displayed.	Countdown from 5 to 0, followed by "LOAD".
When "LOAD" appears on the display, place the maximum capacity of 5000 grams of certified weight on the scale.  Once the weight is on the scale, press  .	"LOAD"
The display will count down from 5 to 0. If the scale detects any movement, it will display the "UNSTAB" message and the countdown will be reset until the weight is stable. At the end, a calibration factor will be displayed for 5 seconds then display "OFF". A calibration factor will appear.	Countdown from 5 to 0, followed by a calibration factor.
Remove weight from the scale and turn it off.	

# TROUBLESHOOTING

## Troubleshooting

Before contacting service personnel, refer to the following instructions to check and to correct any failures. For additional questions contact Customer Service at 1-800-815-6615.

Symptom	Possible Cause	Corrective Action
Scale does not turn on	Depleted battery	Connect the scale to the battery charger and charge the battery.
Scale battery will not charge.	<ol style="list-style-type: none"> <li>1. Faulty electrical outlet</li> <li>2. Bad power supply</li> </ol>	<ol style="list-style-type: none"> <li>1. Use a different outlet.</li> <li>2. Replace battery charger.</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. Scale is not level</li> <li>3. Scale is out of calibration</li> </ol>	<ol style="list-style-type: none"> <li>1. Check that there are no objects under the weighing tray or pan. Remove any objects that could be interfering with the scale.</li> <li>2. Use the adjustable feet and level indicator to level the scale.</li> <li>3. Check weight with known weight value.</li> </ol>
The display shows "UNLOAD" message	<ol style="list-style-type: none"> <li>1. The weighing pan/tray is not attached correctly.</li> <li>2. The items on the weighing pan/tray exceed the scale's capacity: 3400KL / 3401KL: 176oz / 5000g 3400KG / 3400KG-C: 5000g x 1g</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn off the scale. Check that the weighing pan/tray is correctly in place. Turn on the scale again.</li> <li>2. Remove items to below the scale capacity.</li> </ol>
Backlight display won't illuminate	Battery is low	Connect the scale to the battery charger and charge the battery.
The display shows "HELP" message	There may be a problem with the electronics.	Contact Customer Service at 1-800-815-6615.

# WARRANTY

## **Limited Warranty**

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

This Health o meter® Professional scale 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 in 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 W. 55<sup>th</sup> St.  
McCook, IL 60525

### **Extended Warranty Available**

This scale is eligible for Health o meter® Professional ScaleSurance Extended Warranty Program. ScaleSurance extends the warranty period for an additional two years. This extension to the standard Limited Warranty can be purchased with new scales or for existing scales before the original warranty has expired. To learn more, visit [www.homscales.com/scalesurance/](http://www.homscales.com/scalesurance/) or contact your medical supply distributor.



**PELSTAR, LLC**

**9500 W. 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](http://www.homscales.com)

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