

Health o meter®

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

Model 3400KL Digital Diaper, Lap Sponge, and Organ Scale



User Instructions



PELSTAR, LLC 9500 West 55th St. McCook, IL 60525-7110 USA

www.homscales.com

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P/N UM3400KL Rev20151211

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

CAUTIONS AND WARNINGS

- 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 176 oz / 5000 g 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 AC adapter/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 or tray can be put into an autoclave for sterilization.



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 that are not original.

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

CAUTIONS AND WARNINGS

- 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.
- Battery replacement should only be performed by qualified personnel such as Biomed or Engineering.
- For information regarding battery replacement, contact Health o meter® Professional Scales at 1-800-815-6615.

When using the AC adapter/battery charger:

- Do not use an unspecified AC adapter/battery charger with this scale. Use only the AC adapter/battery charger provided with this scale by Health o meter® Professional Scales. Use of an unspecified adapter will void the warranty, and can pose a serious safety hazard.
- For use with AC adapter/battery charger model 3400ADPT.
- Prior to using this scale, inspect the AC adapter/battery charger cord for cracking / fraying, or for broken / bent plug prongs.
- Prior to using the AC adapter/battery charger, ensure that it is plugged into an outlet with the rated voltage appropriate for operation. The AC adapter/battery charger is rated as follows: 100-240VAC/9VDC.
- Ensure that the AC adapter/battery charger outlet is wired to a circuit breaker or other protected power source.
- Ensure that the AC adapter/battery charger and scale are not used or stored in excessive temperatures or excessive humidity. Do not immerse the scale or AC adapter/battery charger in liquids. For cleaning instructions, see the Maintenance section on page 11.

SPECIFICATIONS FOR THIS SCALE

General

The Model 3400KL digital diaper, lap sponge, and organ 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.

Weight can be displayed in ounces or in grams.


Health o meter® Professional Scales recommends operating the scale via battery power. Note: continuously powering the scale via the AC adapter/battery charger may shorten the life of the battery.

3400KL Scale Specifications

Capacity and Resolution	176oz x 0.05oz (5000g x 1g)	
Power Requirements	100 – 240 VAC AC adapter/battery charger / 6 volt 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	Weighing Pan Length: 9 7/8" (249mm) Width: 10" (254mm) Height: 2 1/2" (61mm) Weight: 1.4lb (.64kg)	Scale Base (including handles) Length: 9 7/8" (250mm) Width: 11 1/2" (292mm) Height: 5 1/4" (133mm) 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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3400KL 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 batteries. Do not dispose of this device in the domestic waste stream.

3400KL SET UP INSTRUCTIONS

Before Set Up

Each 3400KL digital diaper, lap sponge and 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.

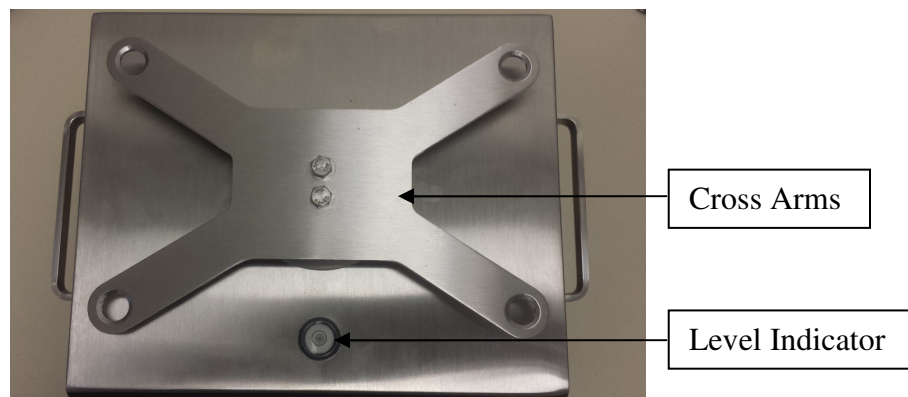
To prevent scratching any components, carefully remove each assembly from the carton and unwrap the packing materials. Set the carton aside for storage. To avoid damaging the scale parts when unpacking, do not use a box cutter, knife, scissors, or any sharp object to open the protective inner packaging.

Carton Contents

- (1) Scale base, including 6v rechargeable battery
- (1) Stainless steel weighing pan
- (1) AC adapter/battery charger
- (1) User instructions

Attaching the Weighing Pan

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

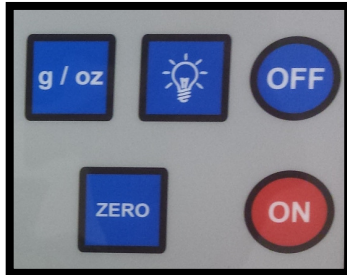



2. Locate the positioning pins on the underside of the weighing pan. Align the pins on the bottom of the tray with the holes on the cross arms of the scale's base. Gently place the pins into the holes until level and secure. Ensure all four pins are placed entirely through holes, as shown below.



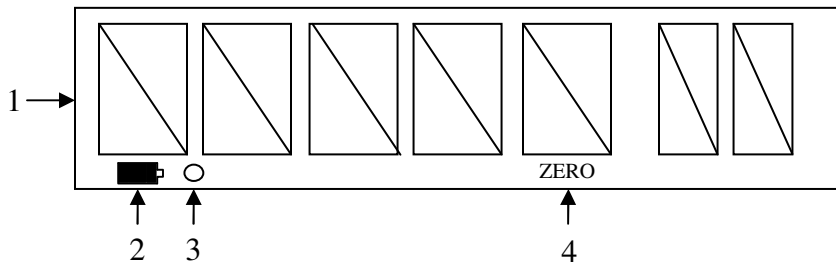
3400KL OPERATING INSTRUCTIONS

Keypad Functions



Function	Description
g/oz	Changes weight measurement to grams or ounces.
	Activates the display's backlight.
OFF	Turns off the scale.
ZERO	Returns the scale to zero.
ON	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.
 - **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. **AC ADAPTER/BATTERY CHARGER:** When the AC adapter/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)

Powering the Scale

Health o meter® Professional Scales recommends operating the scale via battery power. To charge the scale's battery, connect the AC adapter/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) and 200 hours (without backlight).

Note: If using the scale via the AC adapter/battery charger, connect the adapter to the scale base. Plug the power adapter into a 120v AC outlet. Note: continuously powering the scale via the AC adapter/battery charger may shorten the life of the battery.

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

1. 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.
2. If the scale is on, place the object to be tared on the weighing surface. Wait for the weight to be displayed, then press the **ZERO** button. If the tared object is removed, the scale will display "NEG" for negative weight until items are placed onto the weighing surface.
3. When 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.
4. 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 AC adapter/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 AC adapter/battery charger is connected and the scale is on, the Backlight will automatically turn on.

OPERATING INSTRUCTIONS (CONT)

Power Timer Function

- If there is no weight on the scale and the AC adapter/battery charger is not plugged in, the scale will turn off after approximately 15 minutes of not being used.
- To continue using the scale, turn it on again.
- The Power Timer Function is only active when the scale is being used without the AC adapter/battery charger.

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 AC adapter/battery charger to recharge.
- Approximate time to fully recharge the battery is 10 hours.

MAINTENANCE

Maintenance

The following pages provide instructions for maintenance, cleaning, calibration and troubleshooting for the 3400KL scale. Maintenance operations other than those described in this manual should be performed by qualified service personnel such as Biomed 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 AC adapter/battery charger for cord 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 AC adapter/battery charger 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 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

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

CALIBRATION

This scale is factory calibrated and does not require calibration prior to use.

If you experience difficulty in calibrating your scale, please call Customer Service at 1-800-815-6615.

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: g/oz, , ZERO, ZERO Note: Sequence must be entered while the lines appear on the display.	"CODE"
Enter the calibration sequence: g/oz, ZERO, ZERO, g/oz, ZERO, ZERO Then press 	"RZERO"
Scale will first take the zero reference. Ensure that the weighing pan is on the scale and with no load, then press 	Countdown 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.
When "LOAD" appears on the display, place the maximum capacity of 176 oz / 5000 g on the scale. Once the weight is on the scale, press 	Countdown 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". The calibration factor should be in the range of 7.4 to 8.0. If the number is out of that range, contact Customer Service at 1-800-815-6615.
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	<ol style="list-style-type: none"> 1. Dead battery 2. Faulty electrical outlet 3. Bad power supply 	<ol style="list-style-type: none"> 1. Connect the scale to the AC adapter/battery charger and charge the battery. 2. Use a different outlet. 3. Replace AC adapter/battery charger.
Questionable weight or the scale does not zero	<ol style="list-style-type: none"> 1. External object interfering with the scale 2. Scale is not level 3. Scale is out of calibration 	<ol style="list-style-type: none"> 1. Check that there are no objects under the weighing tray or pan. Remove any objects that could be interfering with the scale. 2. Use the adjustable feet and level indicator to level the scale. 3. Check weight with known weight value.
The display shows "UNLOAD" message	<ol style="list-style-type: none"> 1. The weighing pan tray is not attached correctly. 2. The items on the weighing pan exceed the scale's capacity of 176 oz / 5000 g 	<ol style="list-style-type: none"> 1. Turn off the scale. Check that the weighing pan is correctly in place. Turn on the scale again. 2. Remove items to below the scale capacity.
The display shows "HELP" message	There may be a problem with the electronics.	Contact Customer Service at 1-800-815-6615.

WARRANTY

What does the Warranty Cover?

This Health o meter® Professional scales 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. 55th St.

McCook, IL 60525



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

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