

Health o meter[®]
P r o f e s s i o n a l

Model 522KL / 522KG Digital Pediatric Tray Scale



User Instructions



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

weigh**easier**[®]

Health o meter[®] Professional 522KL
Health o meter[®] Professional 522KG

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Thank you for purchasing 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/product-support/technical-support/product-warranty-registration

For User Instructions updates and revisions please go to:
www.homscales.com

CAUTIONS AND WARNINGS

Intended Use

The Health o meter® Professional 522KL/522KG scale is intended to be used in a professional medical environment by trained medical staff. This product was designed to weigh infants that are laying or sitting on the tray. The intended use of the included measuring tape is to measure patient length. 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.
- Do not transport the scale with a patient or object on the tray.
- Do not exceed the weight capacity specified for this scale.
- Do not use in the presence of flammable or explosive materials.
- Ensure that the scale or AC adapter do not come in contact with liquids, excessive temperature, or excessive humidity.
- If the scale becomes damaged, it should not be operated until properly serviced.

Patient/caregiver safety

- This scale is designed for static weighing of patients only. No scale should be used for patient transfer.
- To prevent patient injury, the patient must be attended throughout the entire weighing event.
- Patient should wear lightweight covering or a paper tray liner should be used during weighing event.

When operating the scale with batteries:

- If the "LO" indicator activates, replace the batteries or switch to the AC adapter as soon as possible.
- When replacing / inserting batteries, be sure to use all new batteries.

When operating the scale with the (optional) AC adapter:

- Operate this scale exclusively with the AC adapter that is specified (ADPT31). Use of an unspecified adapter will void the warranty, and can pose a serious safety hazard.
- Prior to using this scale, inspect the AC adapter cord for cracking / 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.
- Unplug the AC adapter, and carefully store both the adapter and adapter cord before moving the scale.
- Operating this scale at voltages and frequencies other than specified can damage the equipment and will void the warranty.

This equipment has been tested and found to comply with the EMC limits for the Medical Device Directive 93/42/EEC (EN 55011 Class A and EN 60601-1-2). These limits are designed to provide reasonable protection against harmful interference in a typical medical installation. The equipment generates, uses and may radiate radio frequency energy and, if not installed and used in accordance with these instructions, may cause harmful interference to other devices in the vicinity. There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with other devices, which can be determined by turning the equipment off and on, the user is encouraged to try to eliminate the interference by one or more of the following measures:

- Reorient or relocate the receiving device.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the other device(s) is connected.
- Consult Customer Service or a field service technician for help.

In no event shall Pelstar, LLC be liable for damages or injuries arising out of or connected with the assembly, use, or misuse of this product.

SPECIFICATIONS

General

The Health o meter® Professional 522KL/522KG 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.

Scale Specifications

Capacity and Resolution	522KL: 50 lb / 23 kg; 0 - 20 lb / 0.2 oz; 20 - 50 lb / 0.5 oz; 0 - 9 kg / 5g; 9 - 23 kg / 10 g 522KG: 23 kg; 0 - 9 kg / 5g; 9 - 23 kg / 10 g	
Power Requirements	6 AA batteries included, optional 120V power adapter (ADPT31) Type: UE15WCP1 9 VDC @ 500mA	
Environmental	Operating temperatures: 50°F to 104°F (10°C to 50°C) Atmospheric Pressure: 500hPa – 1060hPa Humidity: 10% - 95% RH	
Physical Dimensions	Tray Size: Length: 14 1/2" (368 mm) Width: 24 1/8" (613 mm) Height: 2 5/8" (67 mm)	Product Footprint: Length: 21" (533 mm) Width: 24 1/8" (613 mm) Height: 23 1/8" (587 mm)

DEFINITION OF SYMBOLS



Attention: Consult Accompanying Documents



Caution



Do not dispose of this device in the domestic waste stream.



Type B Applied Parts





DC Power Supply

Scale surface and provided measuring tape are the Type B applied parts.

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.
	This product is tested to and meets the requirements of: 1. UL60601-1 First Edition: Safety for Medical Electrical Equipment 2. CSA C22.2 No. 601-1 M90: Medical Electrical Equipment

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.

ASSEMBLY INSTRUCTIONS

Before Assembly

Each 522KL/522KG Digital Pediatric Tray 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




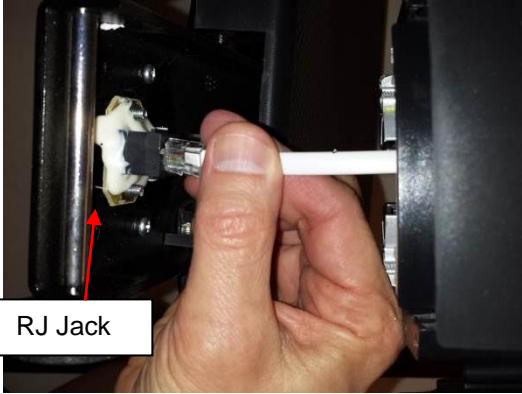
Carton

- (6) AA batteries
- (4) Column mounting screws (attached to display assembly column)
- (2) M6 x 16mm tray mounting screws
- (2) Screw covers (to cover tray mounting screws)
- (1) Scale platform
- (1) Column (w / display assembly)
- (1) User instructions
- (1) Measuring tape (black)
- (1) Weighing tray
- (1) Adapter bracket (w/ scale platform)

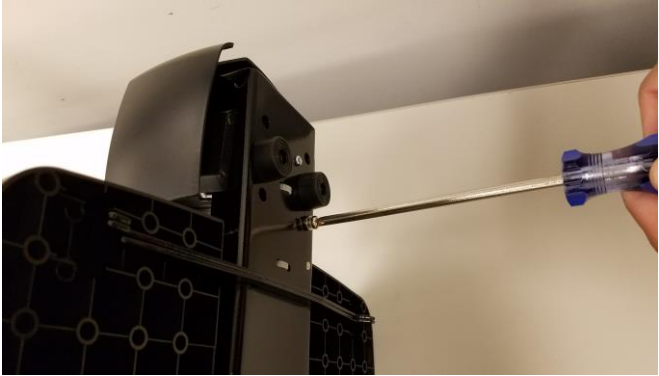



Tools Required

Phillips head screwdriver (not included)

ASSEMBLY INSTRUCTIONS (CONTINUED)

<p>1. Carefully remove the contents of the carton and place each part on a flat, level, and dry surface. Remove the 4 column mounting screws and washers from the bottom of column and set aside for assembly step 5.</p>	<p>Screws and washers</p> 
<p>2. Remove the black adapter bracket from scale platform. Place the bracket on the bottom of the column with the adapter jack arrow sticker pointing towards the front of the column.</p>	
<p>3. Place the scale platform on its side and place the column on its side, perpendicular to the platform. The front of the display head on the column should be facing forward and above the scale platform.</p>	
<p>4. Locate the load cell connector cable inside the column and pull gently until the plug reaches the bottom of the column. Carefully pull the cable connector from the bottom of the column and plug into the RJ jack on the scale platform. Caution: Once connected, keep a firm grip on the columns to ensure the load cell connector cable is not pulled out from the RJ jack. This cable connects the load cells to the display head and must be entirely plugged in for the scale to function properly.</p>	 <p>RJ Jack</p>

ASSEMBLY INSTRUCTIONS (CONTINUED)

<p>5. Position and secure the column to the scale platform. Locate the 4 column mounting screws previously removed in step 1. Insert the 4 screws through the bottom of the scale platform screw holes and into the column. Ensure that washers are located between the screw heads and the scale platform screw holes. Using a Phillips head screwdriver, tighten the screws to secure the column to the base of the platform.</p>	
<p>6. Locate the 2 M6 x 16mm screws included in the clear plastic bag. Align the 2 holes in the tray with the mounting holes on the scale platform. Insert the screws and tighten to attach the tray to the scale platform.</p>	
<p>7. Obtain the circular adhesive screw covers and place onto the screw cap on the tray.</p>	
<p>8. Obtain the measuring tape and remove the adhesive backing. Affix the measuring tape to the bottom or side of tray.</p>	

POWERING THE SCALE

Powering the Scale – Inserting Batteries

1. With a Phillips head screwdriver remove the screw from the battery compartment cover located on the back of the display. Remove the battery cover by pressing downward on the locking tab.



2. Replace or install 6 new AA batteries. Health o meter[®] Professional recommends using an alkaline or lithium battery, rated for 130°F (54°C) operation. Do not use zinc-carbon batteries.

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

4. Ensure all objects are removed from the weighing tray, and then press the **ON/OFF** button to turn the scale on. “88:8:8.8” followed by “0:0.0” will appear on the display.

Note: The battery icon on the display does not indicate battery life. The battery icon simply indicates that batteries are being used as the power source.

Note: If the set up procedure fails, refer to the troubleshooting instructions. If the problem is not corrected, contact Health o meter Professional Scales Customer Service at 1-800-815-6615.

Note: If “Lo” appears on the display, it indicates that the battery power is low. It does NOT indicate a problem with the weight measurement.

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 which apply to you.

Optional AC Adapter

1. Connect the AC adapter (not included) into the adapter jack on the scale platform.

Warning: To avoid a safety hazard, use AC adapter model ADPT31 (Domestic, USA) or ADPT30WA (International, plug kit)



2. Plug the scale’s AC adapter into the power source/wall outlet. **Caution:** Always plug the AC adapter into the scale first, then into the power source/wall outlet.

3. When the AC adapter is disconnected from the scale, the scale will switch to battery power if batteries are installed.

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

OPERATING INSTRUCTIONS

Auto-Off Function

As an energy saving feature, the scale will automatically turn off after 2 minutes of inactivity. By default, this function is enabled. **Note:** The Auto-off function is only active when the scale is being powered by batteries.

Disable Auto-Off

1. While the scale is turned off, press and hold the **HOLD/RELEASE** button.
2. While holding the **HOLD/RELEASE** button, press the **ON/OFF** button to turn the scale on.
3. Release both keys and "AOF=0" will be displayed.
4. Auto-off is now disabled and the scale will remain on until the scale is manually turned off.

Enable Auto-Off

1. While the scale is turned off, press and hold the **HOLD/RELEASE** button.
2. While holding the **HOLD/RELEASE** button, press the **ON/OFF** button to turn the scale on.
3. "START" will briefly appear on the display followed by "AOF=1".
4. Auto-off is now enabled.

Selecting the Weight Measuring Unit (522KL Only):

Note: LB (Pounds) is the default weight measuring unit upon initial set-up/assembly.

1. Press the **ON/OFF** button to turn the scale on.
2. Wait for "0.0" LB or "0.0" KG to appear on the display.
3. Press the **LB/KG** button until the desired unit of measure is displayed.
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.

Locking the Weight Measuring Unit (522KL Only)

The weight measuring unit can be locked to only measure in KG or LB. Follow the procedures below to lock the weight measuring unit.

KG Lock Instructions (522KL Only)

1. Press the **ON/OFF** button to turn the scale on. Wait for "0.0" to appear on the display.
2. Press and hold the **LB/KG** button so that KG icon is displayed and continue holding the **LB/KG** button for approximately 10 seconds.
3. When the KG icon flashes, release the **LB/KG** button. The KG weight measuring unit is now locked and will remain locked even if the scale is turned off.

LB Lock Instructions (522KL Only)

Note: To lock in LB weight mode, you must follow the instructions above to lock in KG weight mode first.

1. Once the scale is locked in KG mode, press and hold the **LB/KG** button for approximately 10 seconds until the LB icon flashes.
2. When the LB icon flashes, release the **LB/KG** button. The LB weight measuring unit is now locked and will remain locked even if the scale is turned off.

Unlocking the Weight Measuring Unit (522KL Only)

Note: If your scale is locked in KG mode, you must first follow the instructions above to lock into LB mode, and then begin the disabling instructions below.

1. Press the **ON/OFF** button to turn the scale on. Wait for "0.0" to appear on the display.
2. Press and hold the **LB/KG** button until LB and KG icons *both* flash. When LB and KG are flashing, release the **LB/KG** button. The weight measuring unit is now unlocked; pressing the **LB/KG** button will allow user to toggle between LB and KG.

OPERATING INSTRUCTIONS (CONTINUED)

Weighing a Patient

1. Make sure there is nothing on the tray.
2. Press the **ON/OFF** button to turn the display assembly on. "88:8:8.8" followed by "0:0.0" will appear on the display.
3. Lay the baby on the scale so that its weight is evenly distributed on the tray. The scale will begin to display weight information and will lock on the patient's weight when the stable weight of the patient is determined. Depending on the movement of the patient on the scale, it may take several seconds for the scale to lock onto the weight. When a stable weight is calculated a small ring will appear on the display along with the baby's weight. If the display shows "OVER" you have exceeded the capacity of the scale.

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

4. The weight may be held on the display by pressing the **HOLD/RELEASE** button. To release, press the **HOLD/RELEASE** button again.
5. After the weight measurement has been taken and is recorded, remove the baby from the weighing tray.
6. Press the **ON/OFF** button to turn the scale off.

Zero Function

The **ZERO/TARE** button zeroes the scale prior to a weight measurement. The **ZERO/TARE** button is also used in the Tare function as outlined below.

Tare Function

The tare function allows you to place other items on the scale while weighing the baby without affecting the baby's weight reading.

1. With all weight off the scale, press the **ON/OFF** button to turn on the scale.
2. Wait until "0:0.0" 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/TARE** button. The word "TARE" will appear on the display, followed by "0:0.0".
5. Keep the object on the platform, and lay the baby on the tray. The scale will display the baby's weight.

Note: If the scale does not return to "0:0.0" when you remove the object and baby from the tray, press the **ZERO/TARE** button to return the scale to zero.

MAINTENANCE AND CLEANING

Maintenance

The following pages provide instructions for maintenance, cleaning, calibrating, and troubleshooting of your 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 cord for 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 and Disinfecting

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

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

1. Health o meter® Professional recommends using one of the following solutions on a soft cloth or disposable wipe:
 - mild soap and water solution
 - 70% isopropyl alcohol
 - solution with 1-5% hydrogen peroxide concentration

After cleaning/disinfecting, wipe with a cloth dampened with water and then with a clean dry cloth. To avoid residue build-up or damp surfaces, ensure the screen and scale parts are completely dry after cleaning.

2. Never use rough or abrasive materials to clean the scale, as these will damage the scale's finish.
3. Do not submerge the scale in water or any other liquid.
4. Do not pour or spray fluids directly on the scale.

Replacement Parts

Replacement parts may be available if a piece of the scale needs to be replaced. Contact Health o meter Professional Scales Customer Service at 1-800-815-6615 to inquire about the availability of these replacement parts.

Part #	Description
522KL/524KLKEYPAD	522KL Keypad
522TRAY	Tray for 522KL/522KG scale
ADPT31	Power adapter

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 must be performed using kilograms (KG). 20 kilograms are required for calibration, applied in 5 kg increments.

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

ACTION	DISPLAY SHOWS
With the scale off, press and hold the LB/KG button (524KL) or the blank blue button (524KG) and ZERO/TARE buttons at the same time, then press the ON/OFF button to turn on the scale. "CAL" will briefly appear on the display, followed by four numbers indicating that you can begin calibration. Release all three buttons.	"CAL" followed by "XXXX"
Press the ZERO/TARE button. "C-5" will flash on the display, followed by "0" or "1".	"C-5" then "0" or "1".
Place 5 kg on the scale. Four numbers will appear. When calibration numbers stabilize, press the ZERO/TARE button. "C-10" will appear on the display, followed by "0" or "1".	"XXXX" followed by "C-10" then "0" or "1".
Place an additional 5 kg on the scale, for a total of 10 kg. Four numbers will appear. When calibration numbers stabilize, press the ZERO/TARE button. "C-15" will appear on the display, followed by "0" or "1".	"XXXX" followed by "C-15" then "0" or "1".
Place an additional 5 kg on the scale, for a total of 15 kg. Four numbers will appear. When calibration numbers stabilize, press the ZERO/TARE button. "C-20" will appear on the display, followed by "0" or "1".	"XXXX" followed by "C-20" then "0" or "1".
Place an additional 5 kg on the scale, for a total of 20 kg. Four numbers will appear. When calibration numbers stabilize, press the ZERO/TARE button. "END" will appear on the display, followed by "OFF". The scale will automatically shut off.	"XXXX" followed by "END" then "OFF"

TROUBLESHOOTING

Troubleshooting

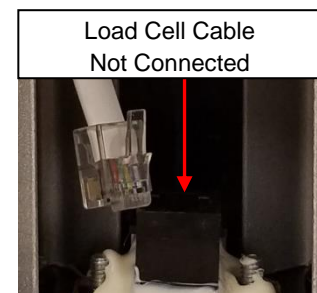
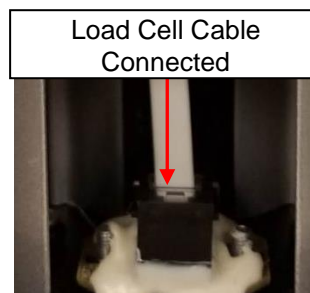
Before contacting service personnel, refer to the following instructions to check and to correct any failures.

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. Replace batteries 2. Use a different outlet 3. Replace AC adapter
Questionable weight or the scale does not zero	<ol style="list-style-type: none"> 1. External object interfering with the scale 2. The display did not show "0:0.0" before weighing 3. Scale is not placed on a level surface 4. Scale is out of calibration 	<ol style="list-style-type: none"> 1. Remove interfering object from the scale 2. Remove the patient from the weighing tray, zero the scale and begin weighing process again 3. Place the scale on a level surface and begin weighing process again 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 laying still	Try to have the patient lay still
The display shows "Over" message	The load on the scale exceeds the capacity (50 lb / 23 kg)	Remove the excess weight and use the scale according to its limits
The display shows "Lo" message	The batteries are depleted	Replace batteries according to instructions
Scale turns on but will not register a weight reading	Load cell connector cable is not plugged in	Refer to the instructions below to inspect the load cell cable.

Inspecting the Load Cell Cable



1. Using a Phillips screwdriver, remove the door at the back of the platform base.



2. Inspect the load cell connector cable to ensure it is completely plugged into the RJ jack. If cable was plugged in, unplug and plug in again until it clicks into place. After checking connection, replace door at the back of the platform base.

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 West 55th Street

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 a facility’s existing scale before its current warranty has expired. To learn more, visit www.homscales.com/scalesurance/ or contact your medical supply distributor.



PELSTAR, LLC

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