Health o meter®
Professional

BTKIT-100 Installation Instructions

Tools Required: Phillips head screwdriver, 1/8” T handle wrench (for use with 3105KL-AM only), 3/32", 5/32" allen wrench (for use with 565KL/KG only)

Parts List:

- Green wireless module, for installation into the scale
- "Enabled with Pelstar® Wireless Technology" Label, to be applied to scale after module install



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Transmitting Data to a Windows® PC

To allow the scale to wirelessly transmit data to a Windows® PC the scale must first be paired to the wireless settings on the user's PC. See page 21 for more information about the set up for use with a PC. Transmitting data into an EMR system requires that the user's Windows® PC has one of the following systems installed: Allscripts TouchWorks® or Professional™, Midmark® IQmanager® or ChARM Health EHR.

- **Allscripts Interface:** To complete the connection to an Allscripts systems, users must download the Allscripts app available at www.homscales.com/innovations/connectivity-solutions. Follow the installation instructions included with the download. To complete installation, Allscripts must activate the app within the user's account to allow for interface between the scale and the Allscripts system on the user's PC.
- **Midmark Interface:** Connection between the scale and Midmark IQ Manager requires that the user's PC have the IQ Manager software installed. For further information users must contact Midmark Technical Support.
- **ChARM Health EHR Interface:** ChARM Health users must contact their account manager to set up the service.

Transmitting Data to a Ceiba IoMT eConnect Box

The wireless module inside the scale communicates directly with the Ceiba IoMT eConnect Box. Scale and eConnect box set up and pairing is provided by Ceiba. For more information, contact your Ceiba account representative or Scott Gottman at sgottman@homscales.com.

Health o meter® Professional supports customers who wish to develop interfaces to their EMR and other computer systems. Developers can obtain the communication protocols needed for the scale models used in their particular environment at www.homscales.com/innovations/connectivity-solutions.

Windows® PC Requirements

- This installation is exclusively compatible with Windows® 10/11
- Bluetooth® Capable or Bluetooth® Card*

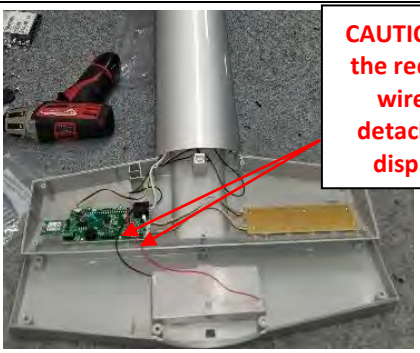
Cautions and Warnings

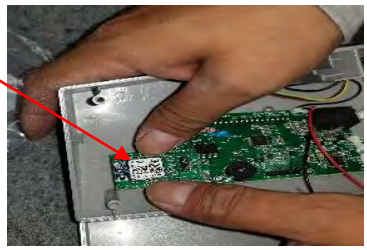
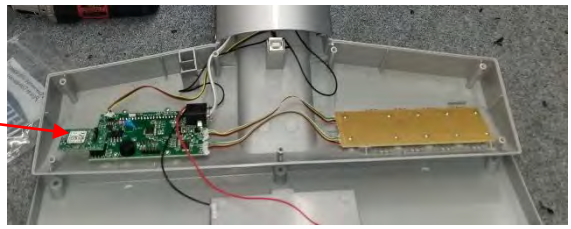
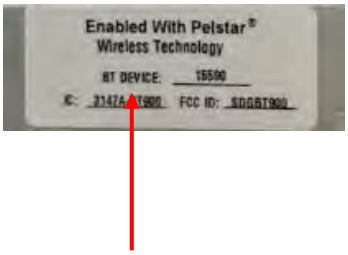
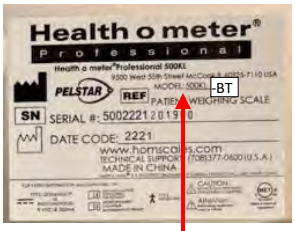
- To prevent installation and performance issues to your PC, please follow these instructions carefully.
- For accurate data collection, confirm and upload the data according to the procedure described in this manual.
- Data validation must be confirmed by the user from the scale to the receiving device to ensure accurate data collection.

**Bluetooth® is a registered trademark of the Bluetooth Special Interest Group. While Health o meter® Professional scales use proprietary technologies for reliably communicating with other devices, it can also be used with many Bluetooth® interfaces.*

Install Instructions for 500, 502, 522, 524KL/KG Scales

Note: The images below show the 500KL/KG. The 502KL/KG instructions are the same. The 522/524KL/KG include the same display head with a shorter pillar.

1. Carefully place the scale on a table or floor as shown with the front of the display facing down.	
2. Using 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. Remove the batteries and set the batteries aside to be replaced in the final step. Unplug the A/C adapter from the base if it is plugged in.	
3. Remove the 7 screws in the rear of the display head and set aside for use in step 6.	
4. Gently open the display head. **CAUTION: Do not fully separate the display head halves. Ensure the red and black wires remain attached.**	

5. Carefully insert the wireless module into the 8 pin socket located on the green board as shown. Observe the orientation of the wireless module. Gently press until secure, do not apply extreme pressure.	 
6. Carefully close the display head and replace the 7 screws obtained in step 3, reinstall the batteries, the battery cover and retaining screw.	
7. Apply the included Device Number label on the back of the scale. Use a pen or permanent marker to add “-BT” to the model number on the product label. **When applying the label, ensure the BT device number matches the serial number on the included USB dongle. The BT device number and serial number must match when connecting to an external device	 

Enabling the Wireless Option

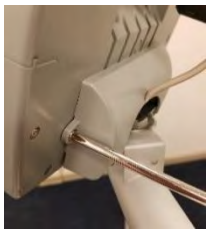
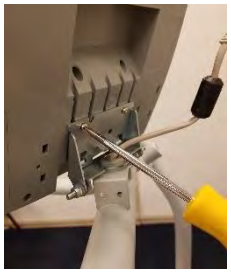
To allow the scale to wirelessly connect to any device, the wireless option must be enabled.

1. While the scale is turned off, press and hold **ENTER/SELECT** then press and release the ⏻ button. Hold **ENTER/SELECT** until “AOF=E” or "AOF=d" appears on the display, then release. Use the ▲ or ▼ buttons to advance the display screen until “Bt=d” appears. Press **ENTER/SELECT** to change the setting to "Bt = E". **Note:** If the wireless module is not installed properly the display will show “Error” on power up.
2. Press **CLEAR/REWEIGH** to save your selection and exit the Options mode.
3. The scale will restart. The display will show “UEr”, followed by a version number, and then dashes. When the display shows “0.0” the scale is ready to use.

For further assistance, contact Health o meter® Professional Scales Technical Support at 1-800-638-3722.

Install Instructions for 1100, 1110, 2101, 2000, 2500, 2600, 2610, 2650, 2700, 2900 KL and KG Scales

Before starting the installation process remove the batteries and power adapter.

1. a. If batteries are installed, use a Phillips head screwdriver to open the battery compartment on the side of the display head. Remove the battery compartment and set aside to reinstall after the keypad is replaced. b. Unplug the A/C adapter if it is plugged in. c. Unplug the load cell cable.	  
2. Use a Phillips head screwdriver to remove the display head bracket cover on the back of the display head.	
3. Use the Phillips head screwdriver to remove the display head from the mounting bracket on the top of the scale.	
4. Use the Phillips head screwdriver to remove the 6 screws on the rear of the display head. Carefully open the display head, ensuring not to damage internal components. Do not touch any circuitry, ribbons or cables other than the keypad ribbon. Tape may be loosened or temporarily removed to allow the display head to be opened more easily.	 
5. Carefully insert the wireless module into the 8 pin socket located on the green PC board as shown. Observe the orientation of the wireless module as shown. Gently press until secure, do not apply extreme pressure.	 

6. Carefully close the display head and replace the 6 screws removed in step 4. Before reassembling the display head onto the scale, plug in the load cell cable and power adapter to ensure the scale powers on and the keypad is functioning properly. Then follow steps 1 through 3 in reverse to install the display head back onto the scale.



7. Apply the included Device Number label on the back of the display head.

   Use a pen or permanent marker to add "-BT" to the model number on the product label.

**When applying the label, ensure the BT device number matches the serial number on the included USB dongle. The BT device number and serial number must match when connecting to an external device

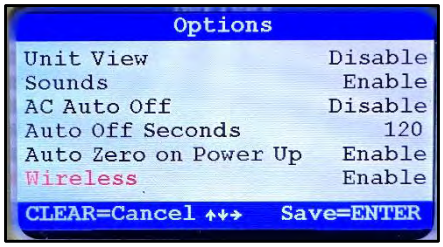


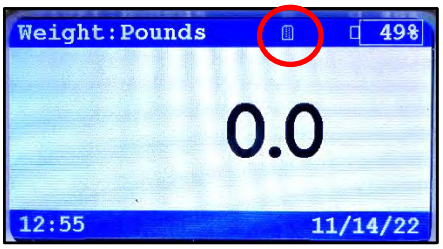
Enabling the Wireless Option

Enabling the Wireless Option

To allow the scale to wirelessly connect to any device, the wireless option must be enabled. Power on the scale. Press Help to access the help menu. While in the help menu, press ⬇ to select "Set Options". Press ➡ to advance to the next menu. Press ⬇ to navigate the options until you reach the wireless option. Press ➡ to enable wireless. Ensure the wireless setting shows "Enable". Press ENTER to save the options, then press CLEAR to exit the help menu. Check that the card icon is displayed in the blue top portion of the screen. This icon indicates that wireless is enabled.







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Install Instructions for 2210KL-AM Series Scales

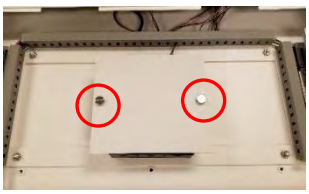
Before starting the installation process, remove the weighing tray, batteries, and the power adapter.

1. Remove the two thumb screws on the back of the scale and set aside. Carefully lift the cover off the scale.





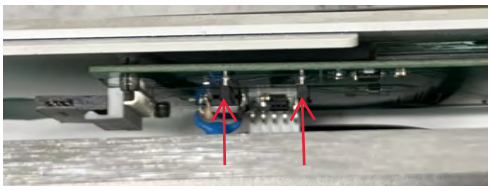
2. If batteries are installed, remove the two thumb screws on the top of the battery compartment located in the center of the inside of the scale and remove the batteries. Set aside to reinstall in step 3. If batteries are not installed, skip to the next step.

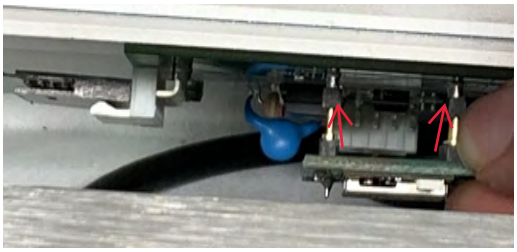


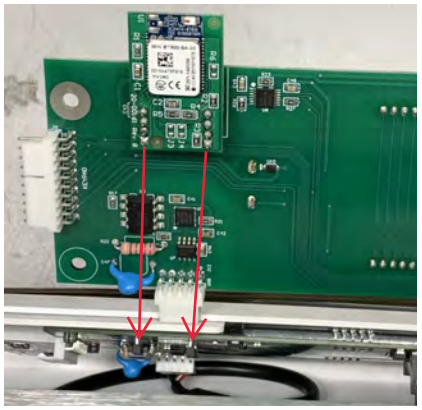
3. Position the scale where you can more easily access the circuit board located behind the keypad. Carefully insert the wireless module into the 8 pin socket located on the board as shown. Gently press until secure, do not apply extreme pressure. The wireless module should be hanging off the edge of the board when secured.

   Replace the batteries if removed. Before replacing the scale cover, press the power button to ensure the scale powers on. Power off the scale and reinstall the scale cover by replacing the two thumb screws on the back of the scale. Replace the weighing tray before powering on the scale again.











4. Apply the included Device Number label on the back of the scale. Use a pen or permanent marker to add "-BT" to the model number on the product label. **When applying the label, ensure the BT device number matches the serial number on the included USB dongle. The BT device number and serial number must match when connecting to an external device	

Enabling the Wireless Option

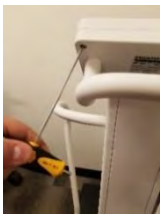
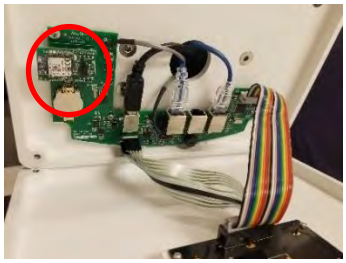
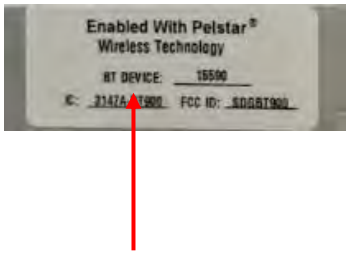
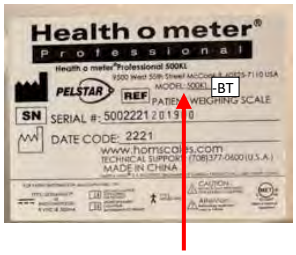
To allow the scale to wirelessly connect to any device, the wireless option must be enabled.

1. While the scale is turned off, press and hold **ENTER/SELECT** then press and release the ⏻ button. Hold **ENTER/SELECT** until “AOb” appears on the display, then release. Use the ▲ or ▼ buttons to advance the display screen until “rAd=d” appears. Press **ENTER/SELECT** to change the setting to "rAd = E".
   Note: If the wireless module is not installed properly the display will show “Error” on power up.
2. Press **CLEAR/REWEIGH** to save your selection and exit the Options mode.
3. The scale will restart. The display will show “UEr”, followed by a version number, and then dashes. When the display shows “0.0” the scale is ready to use.

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Install Instructions for 3105KL-AM Series Scales

Before starting the installation process remove the batteries and power adapter where applicable.

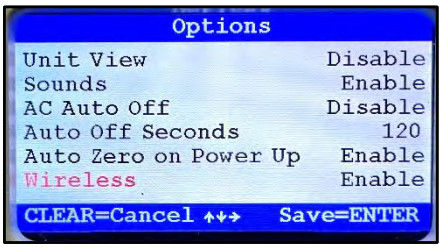
1. Unplug the A/C adapter if it is plugged in. Use a Phillips head screwdriver to remove the four screws from the battery door on the rear of the pillar. Gently rest the battery pack on the outside of the scale. Remove the batteries and set aside to replace in step 3. Replace the battery door.	 
2. Use a 1/8” T handle wrench to remove the four screws in the corners in the rear of the display head. Carefully open the display head, ensuring not to damage internal components. Do not touch any circuitry, ribbons or cables. Note: keep a firm hold on the front of the display head when removing the screws.	
3. Carefully insert the wireless module into the 8 pin socket located on the green board as shown. Observe the orientation of the wireless module as shown. Gently press until secure, do not apply extreme pressure. Carefully close the display head and replace the 6 screws removed in step 1. Plug in the power adapter and/or replace the batteries.	 
4. Apply the included Device Number label on the back of the scale. Use a pen or permanent marker to add “-BT” to the model number on the product label. **When applying the label, ensure the BT device number matches the serial number on the included USB dongle. The BT device number and serial number must match when connecting to an external device	 

Enabling the Wireless Option

Enabling the Wireless Option

To allow the scale to wirelessly connect to any device, the wireless option must be enabled. Power on the scale. Press Help to access the Help menu. While in the help menu, press ⬇ to select "Set Options". Press ➡ to advance to the next menu. Press ⬇ to navigate the options until you reach the wireless option. Press ➡ to enable wireless. Ensure the wireless setting shows "Enable". Press ENTER to save the options, then press CLEAR to exit the help menu. Check that the card icon is displayed in the blue top portion of the screen. This icon indicates that wireless is enabled.



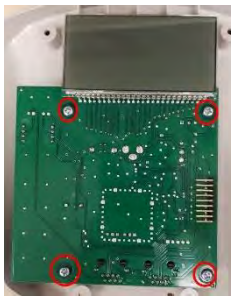
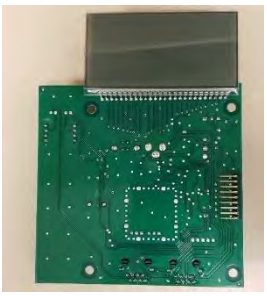
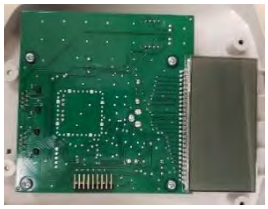
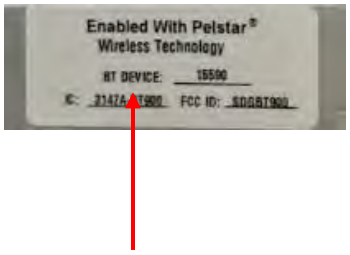
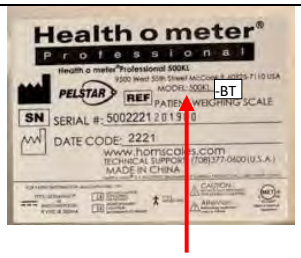




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Install Instructions for 600KL/600KG Scales

1. Remove the batteries and set the batteries aside to be replace in the final step. Unplug the A/C adapter from the base if being used. Using a Phillips head screwdriver, remove the screw from the back of the display module to be able to access the cables on the back of the display head.	
2. Unplug the two cables.	
3. Remove the display module on top of the pillar. Remove the 4 screws in the rear of the display head and set aside for use in step 7.	
4. Gently open the display head. Be careful while opening the display head as the keypad cable is connected to the PCB, which is mounted on the back case of the display head. Remove the keypad cable by pushing the black housing away from the connector pins.	 

5. Use a Phillips Screwdriver to detach the PCB from the back cover of the display head.	 
6. Obtain the green wireless module from the packaging. Carefully insert the wireless module into the Port JR1 on the back of the PCB as shown. Observe the orientation of the wireless module. Gently press until secure, do not apply extreme pressure.	
7. Obtain the front cover of the display head with the keypad removed in step 3. Plug the keypad cable into its port on the PCB.	 
8. Carefully close the display head and replace the 4 screws obtained in step 3 Replace the display head onto the top of the scale pillar. Plug the cable labeled “SCALE” into the SCALE jack, plug the cable labeled “COM” into the COM jack. Replace the screw removed in step 1 to secure the display head back onto the scale. Replace the batteries or AC adapter.	 
9. Apply the included “Enabled with Pelstar Wireless Technology” label on the back of the scale. Use a pen or permanent marker to add “-BT” to the model number on the product label. **When applying the label, ensure the BT device number matches the serial number on the included USB dongle. The BT device number and serial number must match when connecting to an external device.	 

Follow these steps to activate the wireless option in the scale firmware.

Power on the scale head using DC power supply (ADPT50). While it's powering on and displaying "Start" press the keys, in order, ZERO-UNITS-UNITS-ZERO to enter calibration/program/test mode. When it displays "Cal", use the UP or DOWN keys until it displays "Prog". Press the ENTER key to enter into the program mode. Make sure that each of the options, OPT1 to OPT11, are the same as shown below then press OFF key to turn off the scale head.

Note: There is no OPT9 option in the program mode.











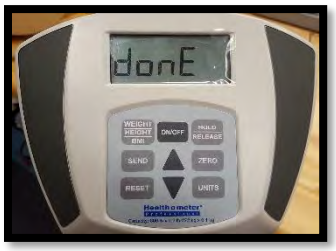








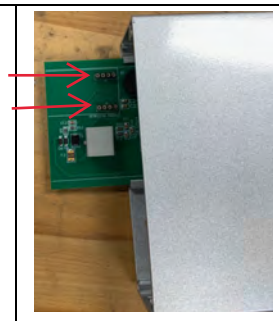
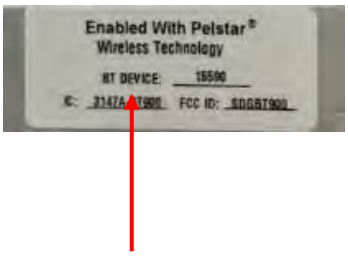
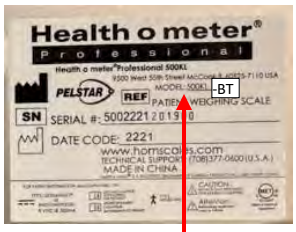




For further assistance, contact Health o meter® Professional Scales Technical Support at 1-800-638-3722.

Install Instructions for 498KL/KG Scales

1. Carefully place the scale display on a table or other surface as shown.	
2. If the batteries are installed, remove the four screws from the left hand side of the display head and remove the black edge cover. Then pull out the battery case and remove the batteries and set them aside to be replaced in the final step. Unplug the A/C adapter from the base if it is plugged in.	 
3. Remove the 4 screws on the right hand side of the display head and set aside for use in step 6.	
4. Gently pull the edge cover off to reveal the interior of the display head. Pull the interior board out slightly and unplug the communication cable.	

5. Pull the board out a little further and carefully insert the wireless module into the 8 pin socket located on the green board as shown. Observe the orientation of the wireless module. Gently press until secure, do not apply extreme pressure. Plug the communication cable back into the socket and slide the board back into the display head.	 
6. Carefully close the display head and replace the 4 screws obtained in step 3, and reinstall the batteries.	
7. Apply the included Device Number label on the back of the scale. Use a pen or permanent marker to add “-BT” to the model number on the product label. **When applying the label, ensure the BT device number matches the serial number on the included USB dongle. The BT device number and serial number must match when connecting to an external device	 

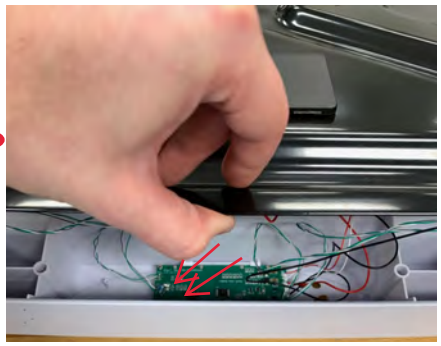
Enabling the Wireless Option

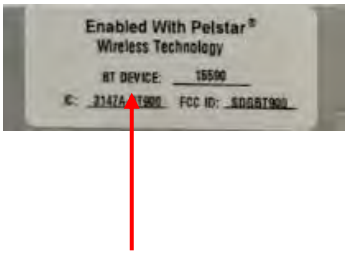
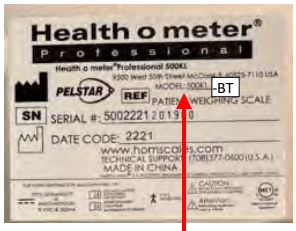
To allow the scale to wirelessly connect to any device, the wireless option must be enabled.

1. While the scale is turned off, press and hold **ENTER/SELECT** then press and release the ⏻ button. Hold **ENTER/SELECT** until “AOF=E” or "AOF=d" appears on the display, then release. Use the ▲ or ▼ buttons to advance the display screen until “rAd=d” appears. Press **ENTER/SELECT** to change the setting to "rAd = E". **Note:** If the wireless module is not installed properly the display will show “Error” on power up.
2. Press **CLEAR/REWEIGH** to save your selection and exit the Options mode.
3. The scale will restart. The display will show “UEr”, followed by a version number, and then dashes. When the display shows “0.0” the scale is ready to use.

For further assistance, contact Health o meter® Professional Scales Technical Support at 1-800-638-3722.

Install Instructions for 553KL/KG Scales

1. Carefully place the scale on a table or floor as shown upside down.	
2. Press the tab and pull to open the battery compartment. Remove and set the batteries aside to be replaced in the final step. Unplug the A/C adapter if it is plugged in.	
3. Remove the 11 screws from the bottom of the scale and set aside for use in step 6. There are two screws in each corner as well as 3 screws around the middle.	
4. Gently lift the black metal plate from the side closer to the battery compartment as shown. Be careful not to pull on the wires connecting the underside of the scale to the board.	 

5. Carefully insert the wireless module into the 8 pin socket located on the green board as shown. Observe the orientation of the wireless module. Gently press until secure, do not apply extreme pressure.	
6. Carefully place the black metal plate back down and replace the 11 screws obtained in step 3, then reinstall the batteries.	
7. Apply the included Device Number label on the bottom of the scale. Use a pen or permanent marker to add “-BT” to the model number on the product label. **When applying the label, ensure the BT device number matches the serial number on the included USB dongle. The BT device number and serial number must match when connecting to an external device	 

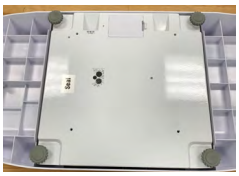
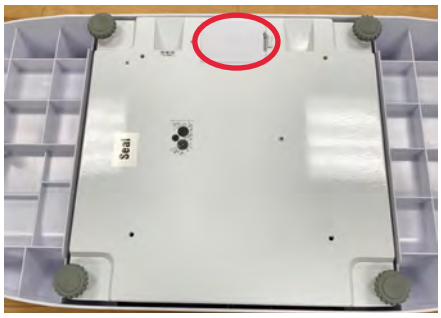
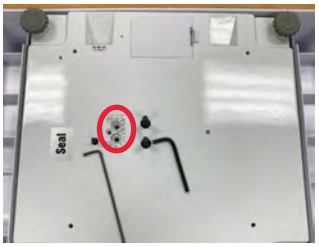
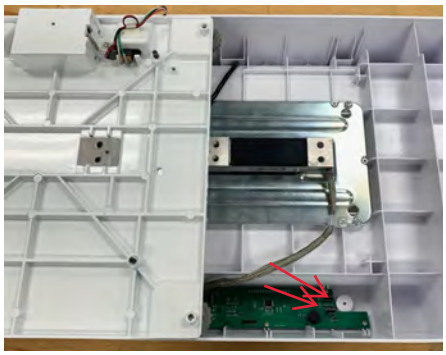
Enabling the Wireless Option

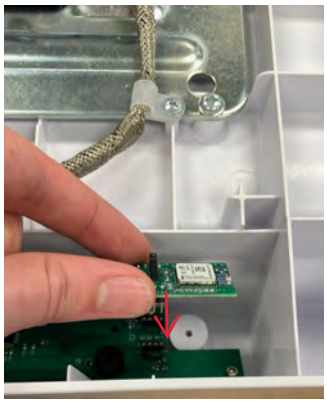
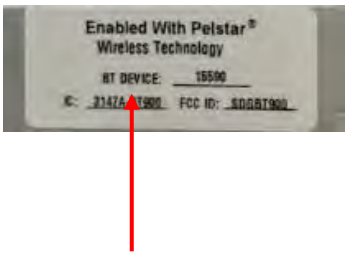
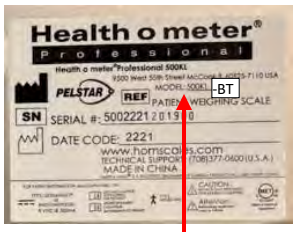
To allow the scale to wirelessly connect to any device, the wireless option must be enabled.

1. While the scale is turned off, press and hold **UNIT** then press and release the ⏻ button. Hold **UNIT** until “AOF=E” or "AOF=d" appears on the display, then release. Use the **ZERO/CLEAR** or ⏻ buttons to advance the display screen until “rAd=d” appears. Press **UNIT** to change the setting to "rAd= E". **Note:** If the wireless module is not installed properly the display will show “Error” on power up.
2. Press **HOLD/RELEASE** to save your selection and exit the Options mode.
3. The scale will restart. The display will show “UEr”, followed by a version number, and then dashes. When the display shows “0.0” the scale is ready to use.

For further assistance, contact Health o meter® Professional Scales Technical Support at 1-800-638-3722.

Install Instructions for 565KL/KG Scales

1. Carefully place the scale on a table or floor as shown upside down. Remove the "Seal" sticker closer to the center of the scale.	
2. Remove the battery door cover by pressing inward on the locking tab. Remove the batteries and set the batteries aside to be replaced in the final step. Unplug the A/C adapter from the base if it is plugged in.	
3. Use a 3/32" and 5/32" allen wrench to remove the 3 screws in the middle.	
4. Gently pull the bottom plate, lift it towards the left as shown and place it down on top of the scale housing. Be careful not to pull on the wires connecting the plate to the load cell and main board.	

5. Carefully insert the wireless module into the 8 pin socket located on the green board as shown. Observe the orientation of the wireless module. Gently press until secure, do not apply extreme pressure.	 
6. Carefully replace the metal plate and replace the 3 screws obtained in step 3, and reinstall the batteries.	
7. Apply the included Device Number label on the back of the scale. Use a pen or permanent marker to add “-BT” to the model number on the product label. **When applying the label, ensure the BT device number matches the serial number on the included USB dongle. The BT device number and serial number must match when connecting to an external device	 

Enabling the Wireless Option

To allow the scale to wirelessly connect to any device, the wireless option must be enabled.

1. While the scale is turned off, press and hold **UNIT** then press and release the ⏻ button. Hold **UNIT** until “AOF=E” or "AOF=d" appears on the display, then release. Use the **ZERO/TARE** or ⏻ buttons to advance the display screen until “rAd=d” appears. Press **UNIT** to change the setting to "rAd = E". **Note:** If the wireless module is not installed properly the display will show “Error” on power up.
2. Press **HOLD/RLS/RECALL** to save your selection and exit the Options mode.
3. The scale will restart. The display will show “UEr”, followed by a version number, and then dashes. When the display shows “0.0” the scale is ready to use.

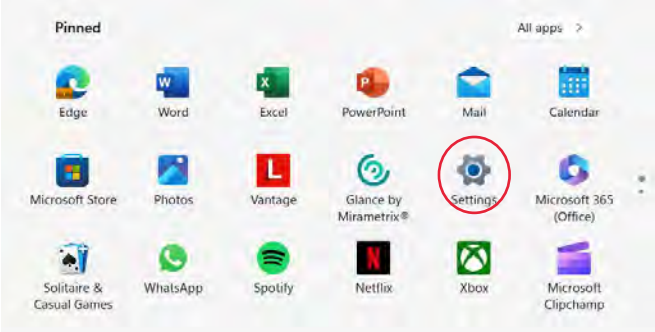
For further assistance, contact Health o meter® Professional Scales Technical Support at 1-800-638-3722.

SET UP FOR WINDOWS® PC

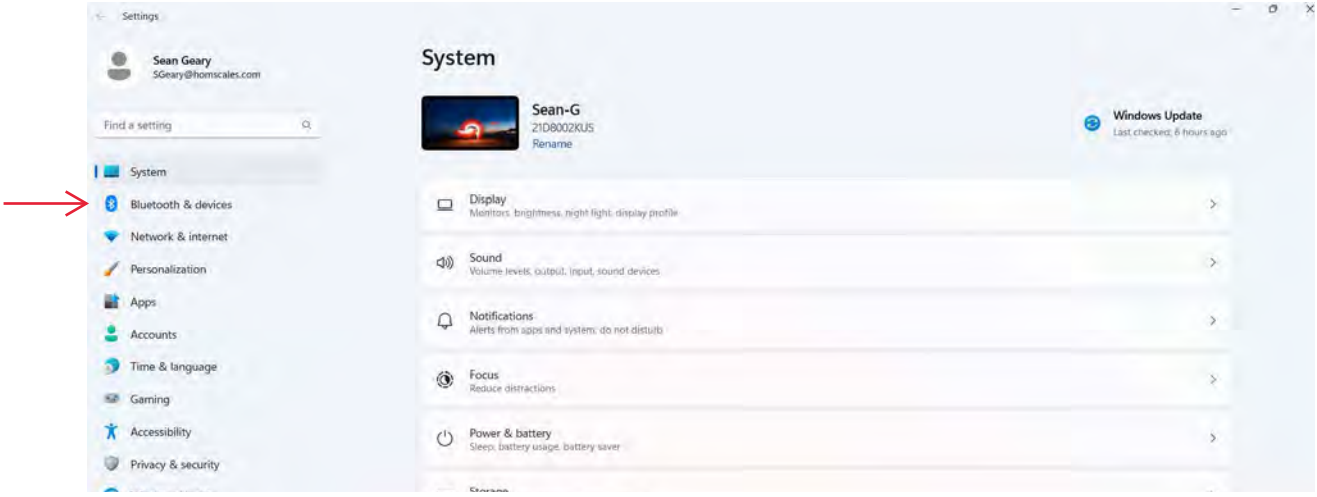
While Health o meter® Professional scales use proprietary technologies for reliably communicating with other devices, it can also be used with many Bluetooth® interfaces. To see if your Bluetooth® device is compatible with the Health o meter® Professional protocols, follow these steps.

Note: Ensure the scale remains on during the entire process of connection setup.

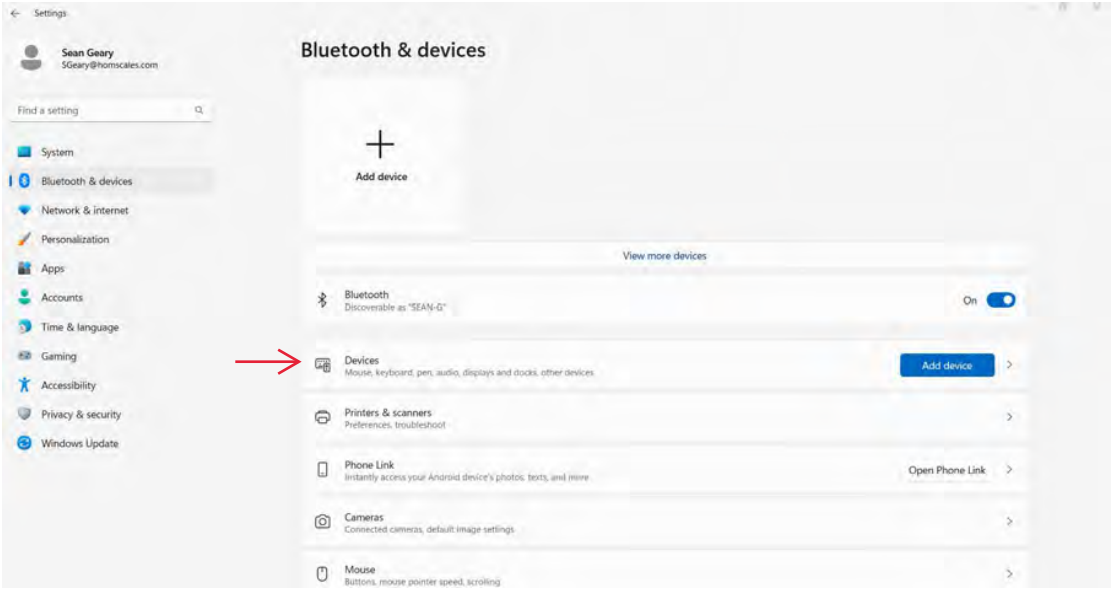
1. From the Start Menu, go to Settings.



2. In the Settings Home, Click on “Bluetooth and Devices“.

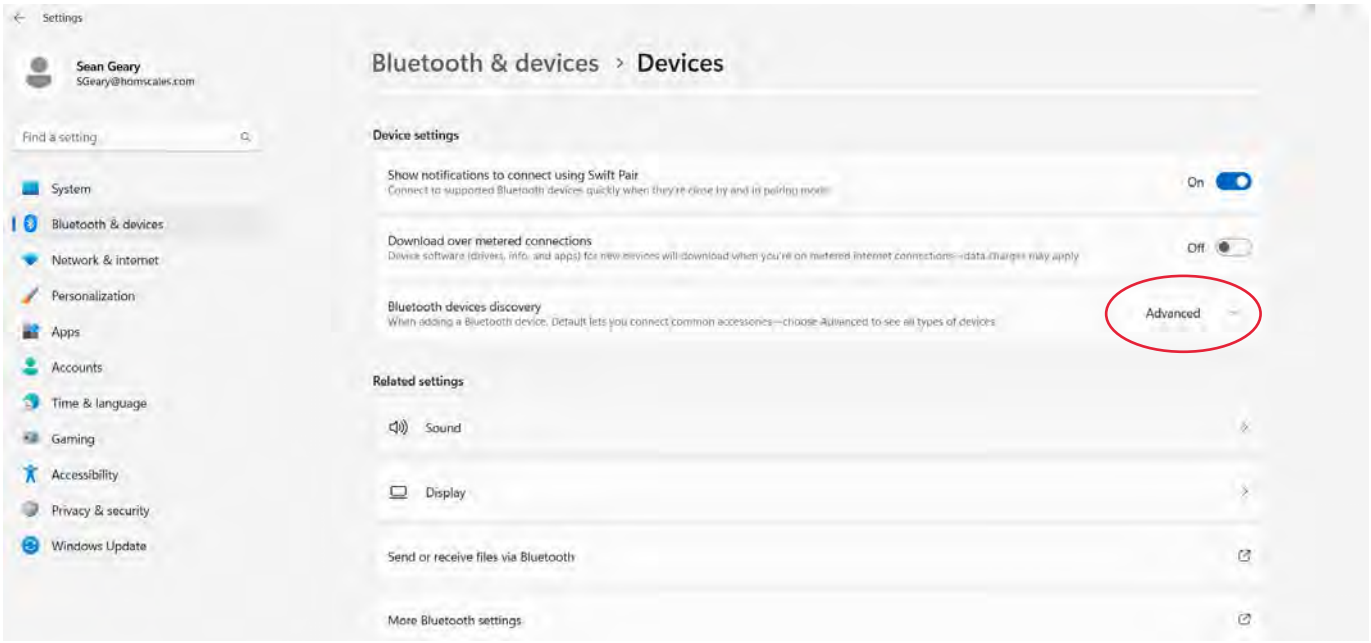


3. In the “Bluetooth & Devices” window find and click on “Devices“.

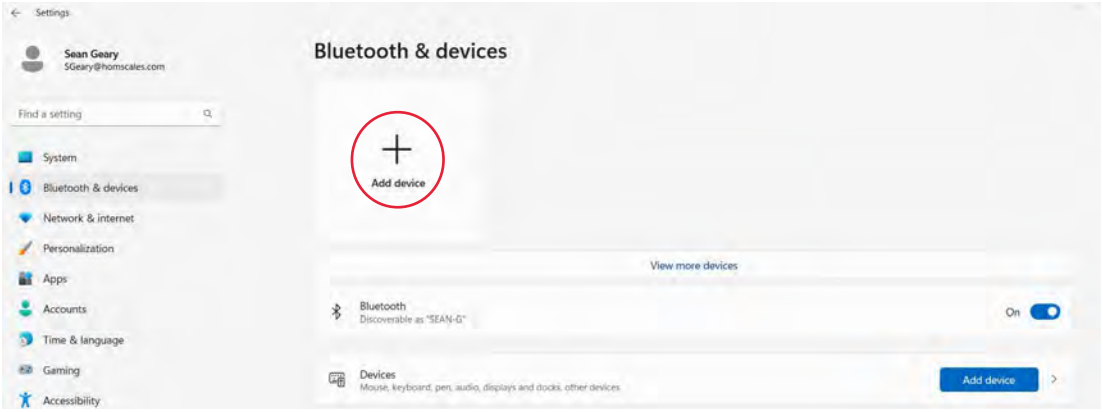


SET UP FOR WINDOWS® PC (CONT.)

4. In the “Devices” window, scroll down to the section titled “Device settings“ and set “Bluetooth devices discovery” to advanced.

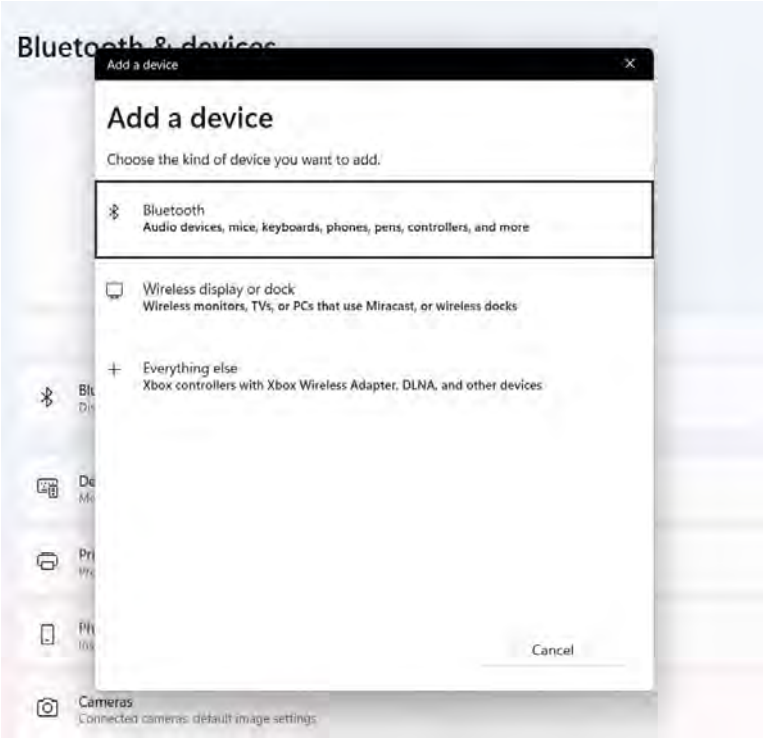


5. Return to the "Bluetooth and Devices" screen and click on "Add device".

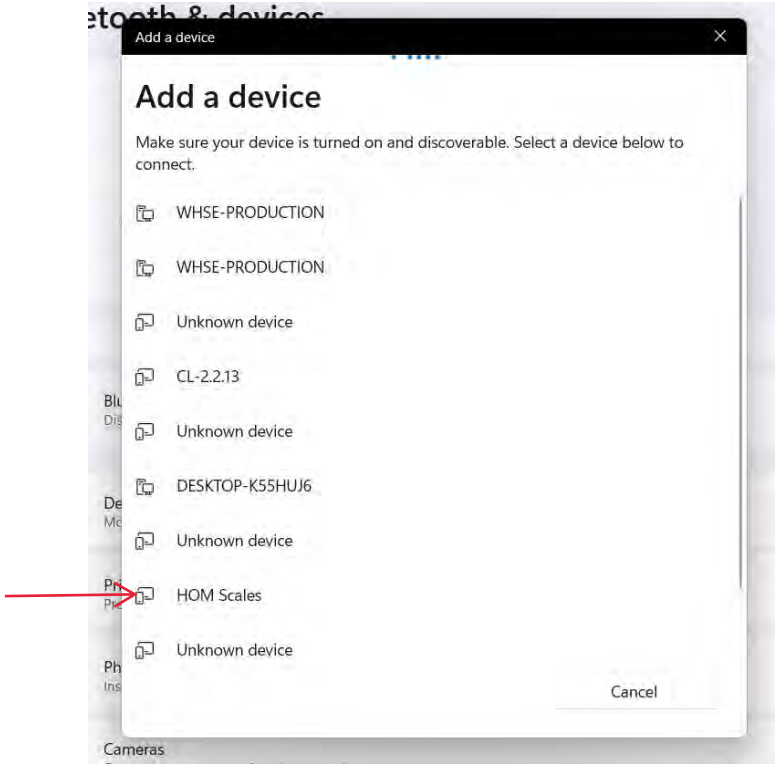


SET UP FOR WINDOWS® PC (CONT.)

6. Add a device window will open. In the Add a device window, click on “Bluetooth”.



7. The PC will search for devices. In this window, look for the device name starting with “HOM” followed by the model number of the scale or the word “Scales”. Click on the HOM name to initiate pairing.

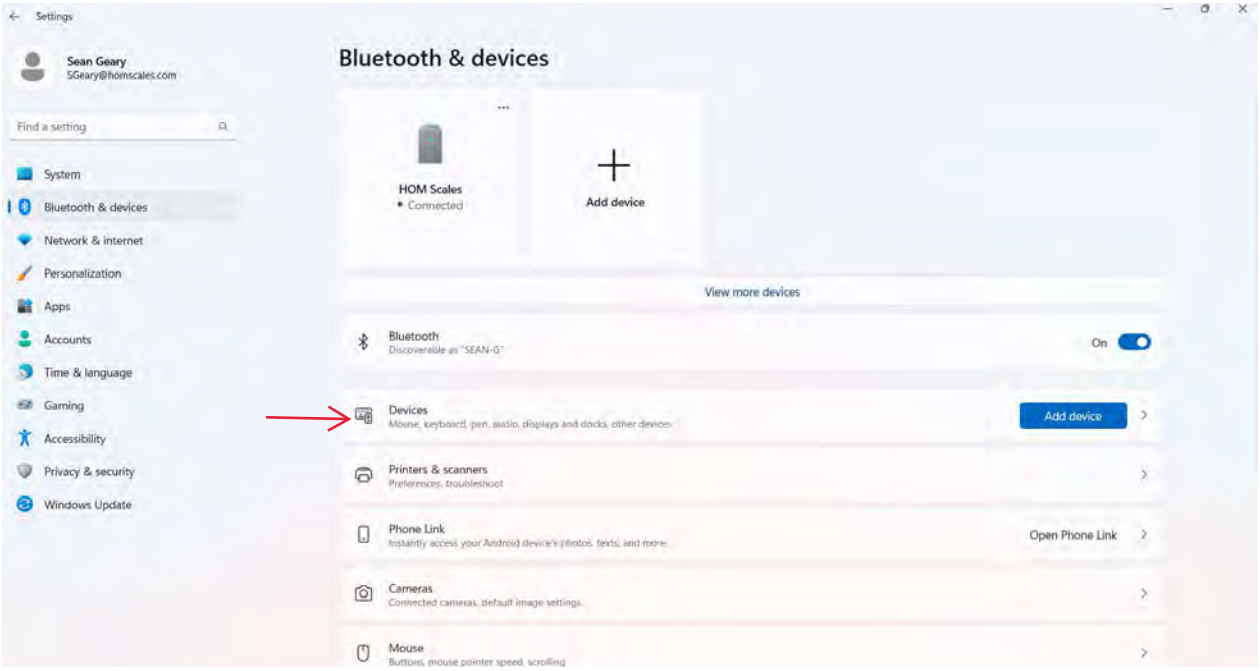


SET UP FOR WINDOWS® PC (CONT.)

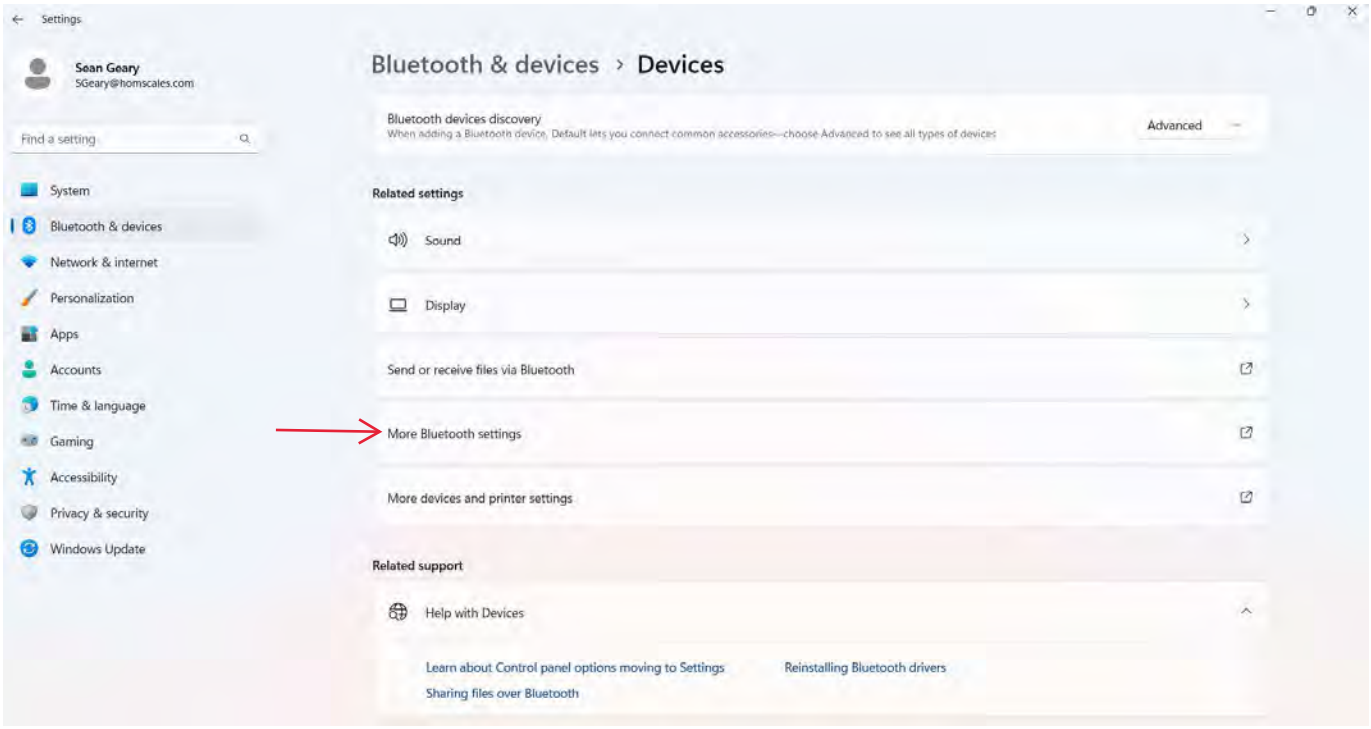
8. If pairing is successful, it will show as connected. Click on “Done” and the pairing is complete.



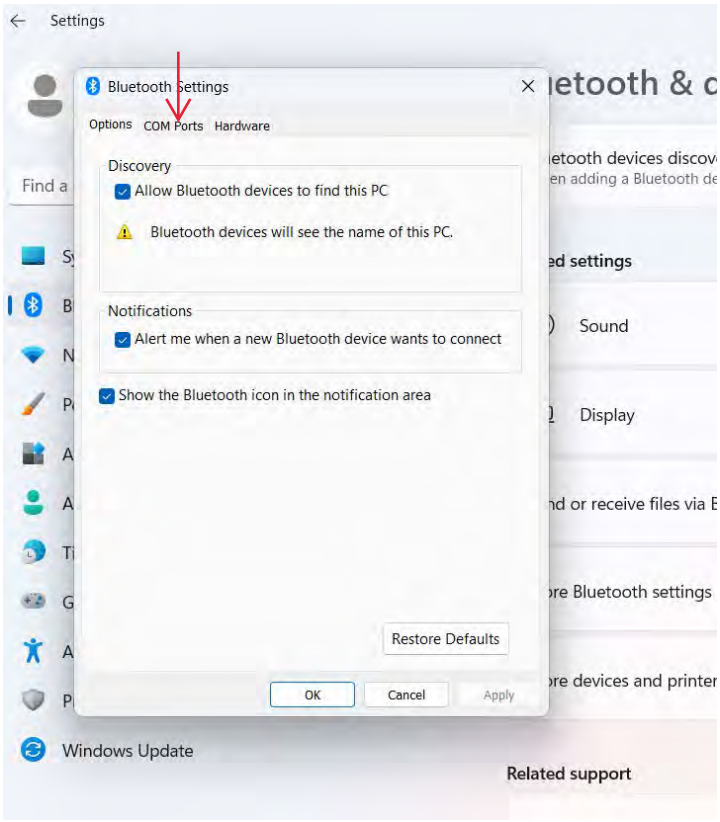
9. In the “Bluetooth® & Devices” window, find and click on “Devices“.



10. In the “Devices” window, scroll down to the section titled “Related settings“ and click on “More Bluetooth settings”.

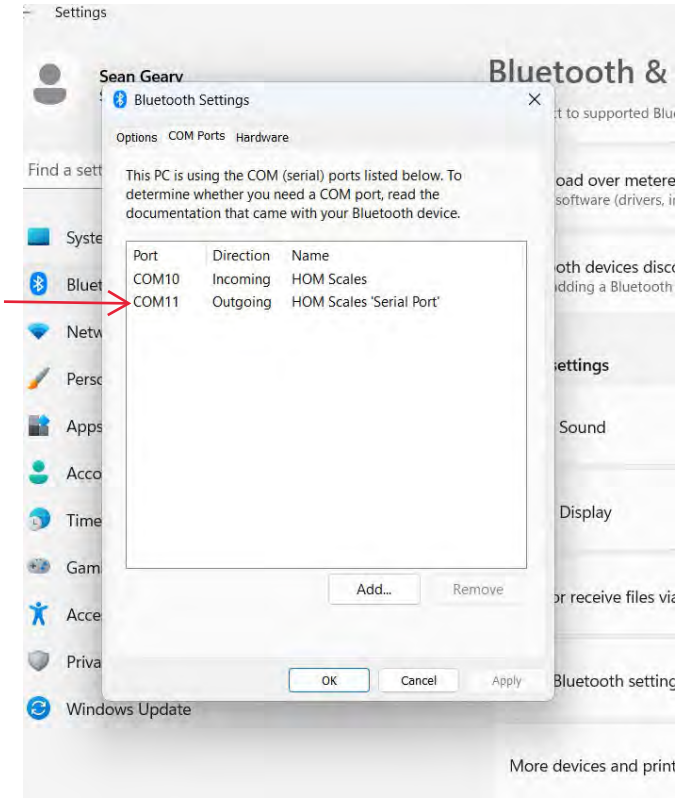


11. The Bluetooth settings window will open. In this window, click on the “COM Ports” tab.



SET UP FOR WINDOWS® PC (CONT.)

12. In the COM Ports tab, note down the COM Port Number shown next to the HOM Scale “Outgoing”. Use this COM Port “COM#” to communicate with the scale wirelessly to transfer data (COM11 in this image).



TROUBLESHOOTING

If experiencing connection problems, refer to the following instructions to check and to correct any failures. For further assistance, contact Health o meter® Professional Scales Technical Support at 1-800-638-3722.

Possible Cause	Suggested Action
USB wireless dongle out of communication range	Check that the distance between the scale and receiving device is less than ~328ft (100m)
Scale powered off while connecting	Ensure connection is made while scale is powered on. Most scales have an auto off feature that can be disabled when using an AC adapter.
Wireless network interference	Move scale or receiving device away from nearby wireless devices
Wireless module was not properly installed into the scale.	Review the installation instructions to ensure all steps were completed and the wireless module made a proper connection on to the scale board.
Scale's wireless setting was not activated.	Refer to the installation instructions to ensure the scale's wireless option was enabled in the settings menu.

REGULATORY INFORMATION

FEDERAL COMMUNICATION COMMISSION (FCC) STATEMENT – BT900 MODULE

This EUT is in compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.

The BT900 is fully approved for mobile and portable applications.

Modular Approval, FCC and IC

FCC ID: SQGBT900, IC: 3147A-BT900

FCC Warning: This device complies with part 15 of the FCC rules and industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE REGULATORY – BT900 Module

The BT900-SA has been tested for compliance with relevant standards for the EU market. See table below.
EU Directives: 2014/53/EU – Radio Equipment Directive (RED)

Article Number	Requirement	Reference Standard(s)
3.1a	Low voltage equipment safety RF Exposure	EN 60950-1:2006+A11:2009+A1 :2010+A12 :2011+A2 :2013 EN 62311 :2008
3.1b	Protection requirements with respect to electromagnetic compatibility	EN 301 489-1 v2.2.0 (2017-03) EN 301 489-17 v3.2.0 (2017-03)
3.2	Means of the efficient use of the radio frequency spectrum (ERM)	EN 300 328 v2.1.1 (2016-11)

SAR COMPLIANCE

The USB Wireless Dongle and BT900 Module are SAR compliant.