

PERFORMANCE TOUCHSCREEN 2

OPERATION & MAINTENANCE GUIDE



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If you experience an issue and are not able to resolve it from this guide,
please contact Wattbike via distributorcs@wattbike.com

This manual was last updated 29/07/25

01 CARE GUIDE & PREVENTATIVE MAINTENANCE

01 CARE GUIDE AND PREVENTATIVE MAINTENANCE

DAILY MAINTENANCE

To ensure your PTS2 stays in good condition, use a clean, soft cloth and non-abrasive liquid cleaner after each session, to remove sweat, dust and dirt.

You should wipe down the exterior cover, and touchscreen.

You may also need to wipe down the device holder area.

MONTHLY MAINTENANCE

- Tighten the retaining bolts to ensure they are not coming loose.
- Check the [Wattbike website](#) for firmware updates and update as required.

CHARGING

- Charge the PTS2 where required from the USB-C charging port underneath the screen.
Use a 5v 2a plug and USB-C cable.

01 CARE GUIDE AND PREVENTATIVE MAINTENANCE

FIRMWARE & APP UPDATES

Firmware and app updates are currently completed by installing them using a USB stick. Read the below guide to complete the process.

Installation

- App and firmware on the PTS2 can be updated separately or together.
- Place the required app and/or firmware versions from the table below on a USB-C stick (FAT32 formatted). Don't unzip or rename the files, add them to the USB stick exactly as they are.
- Plug the USB stick into the PTS2's USB port underneath the middle hardware button*.
- If the app or firmware version on the stick is newer than the version currently installed on the PTS2, you will be prompted to install the new app. Once this is completed, you will be prompted to install the new firmware.

* TIP: A right-angle adapter can make this quicker

Force an Update or Backdate to an earlier Version

- To force an update or to backdate to an earlier version; change the version portion of the file name to ‘force’, as per the following example:
- > Original: wb_pts2_v10025.pkg
- > New: wb_pts2_force.pkg
- Plug the USB stick into the PTS2 port underneath the middle hardware button and restart the PTS2 monitor by holding the power button down until the restart button appears on screen.
- You will be prompted to install the new app. Once this is completed, you will be prompted to install the new firmware.

NOTE: Take care to match compatible app and firmware versions

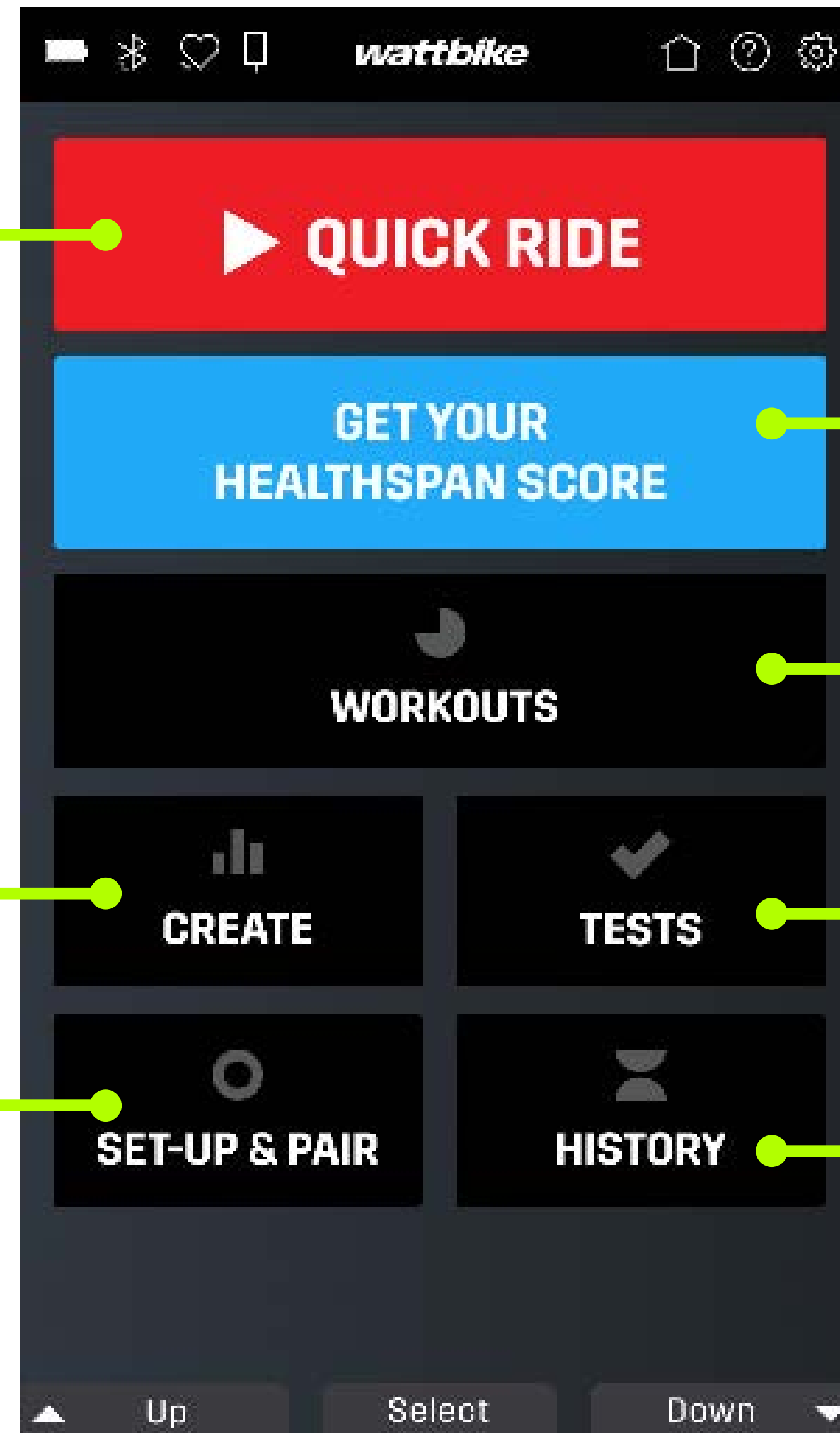
02 BASIC OPERATIONS & SETTINGS

HOME PAGE - OVERVIEW

Press here to start a **‘Quick Ride’** - there are a number of different variations of this feature, explained in section 2 of this manual.

Create your own custom workouts within this tab.

Use this button for advice on ride positioning set up, to download the Wattbike Hub App or for instructions on how to pair to 3rd parts apps.



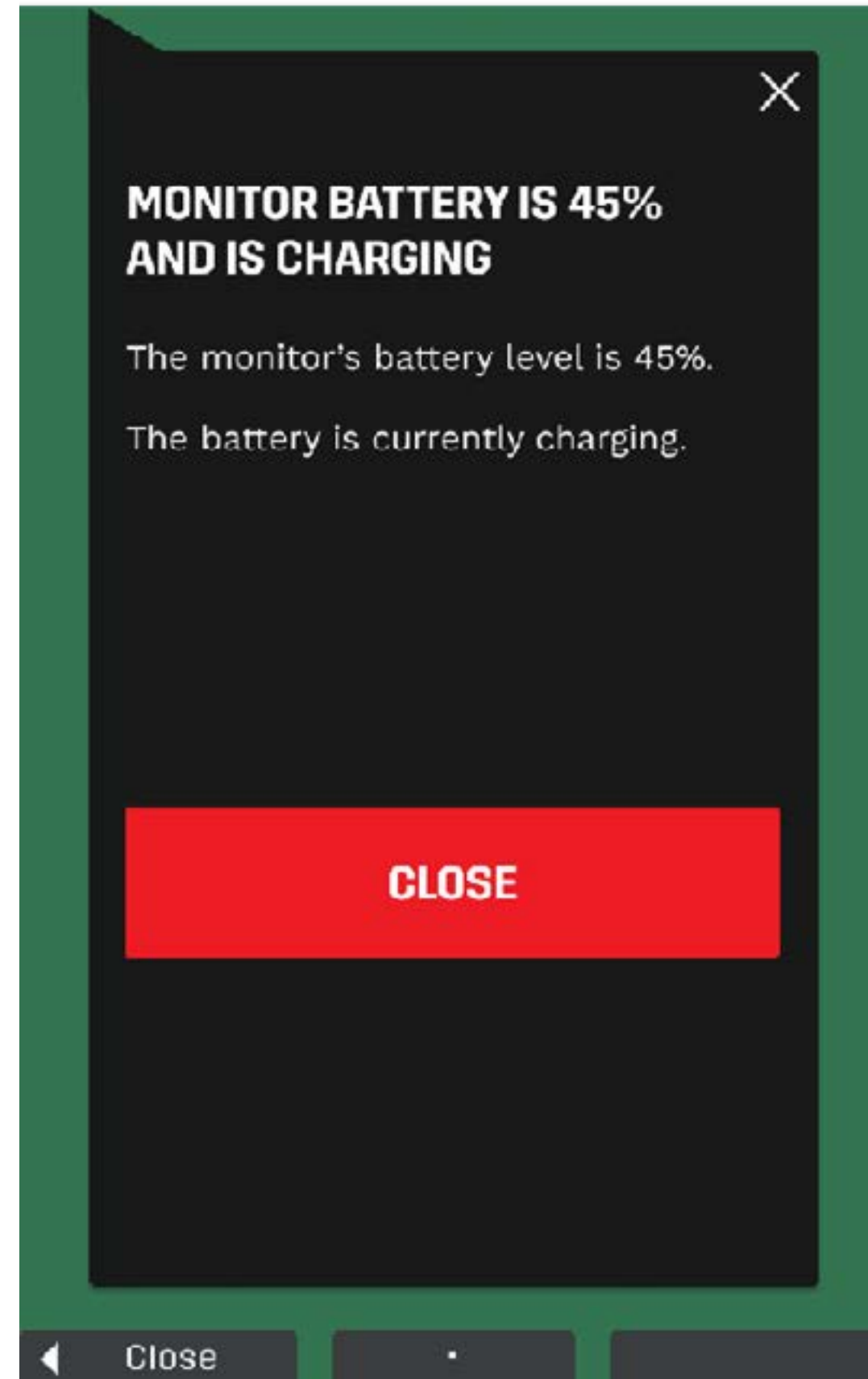
Click this tab to complete our Healthspan Benchmarking. More details on this test can be found on the Wattbike website.

Click this tab to complete a Wattbike workout.

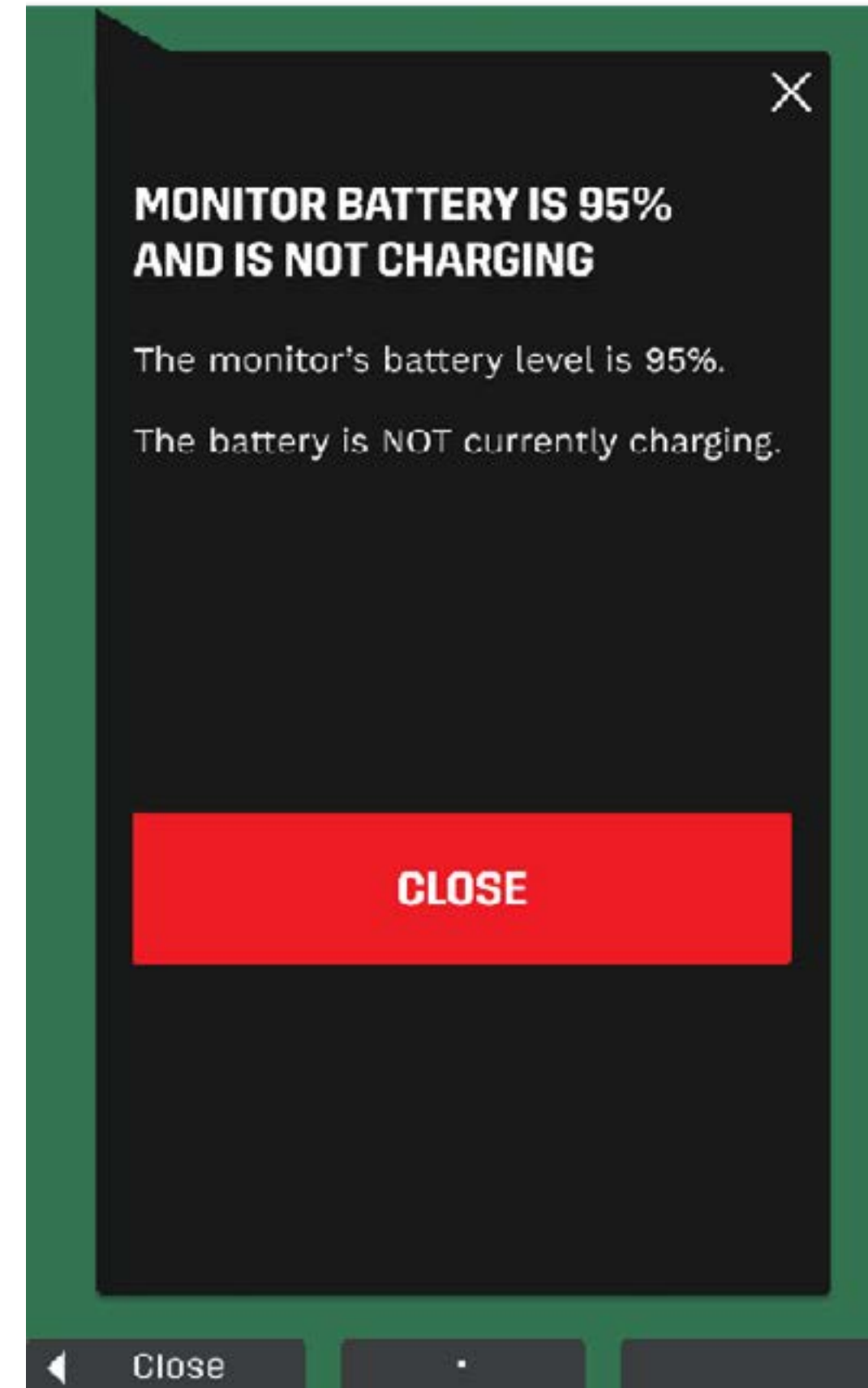
Press here to complete tests such as the 6" peak power test or FTP Test.

Press here for **‘History’** - sessions will only be available here if a user was not logged in when the session was completed.

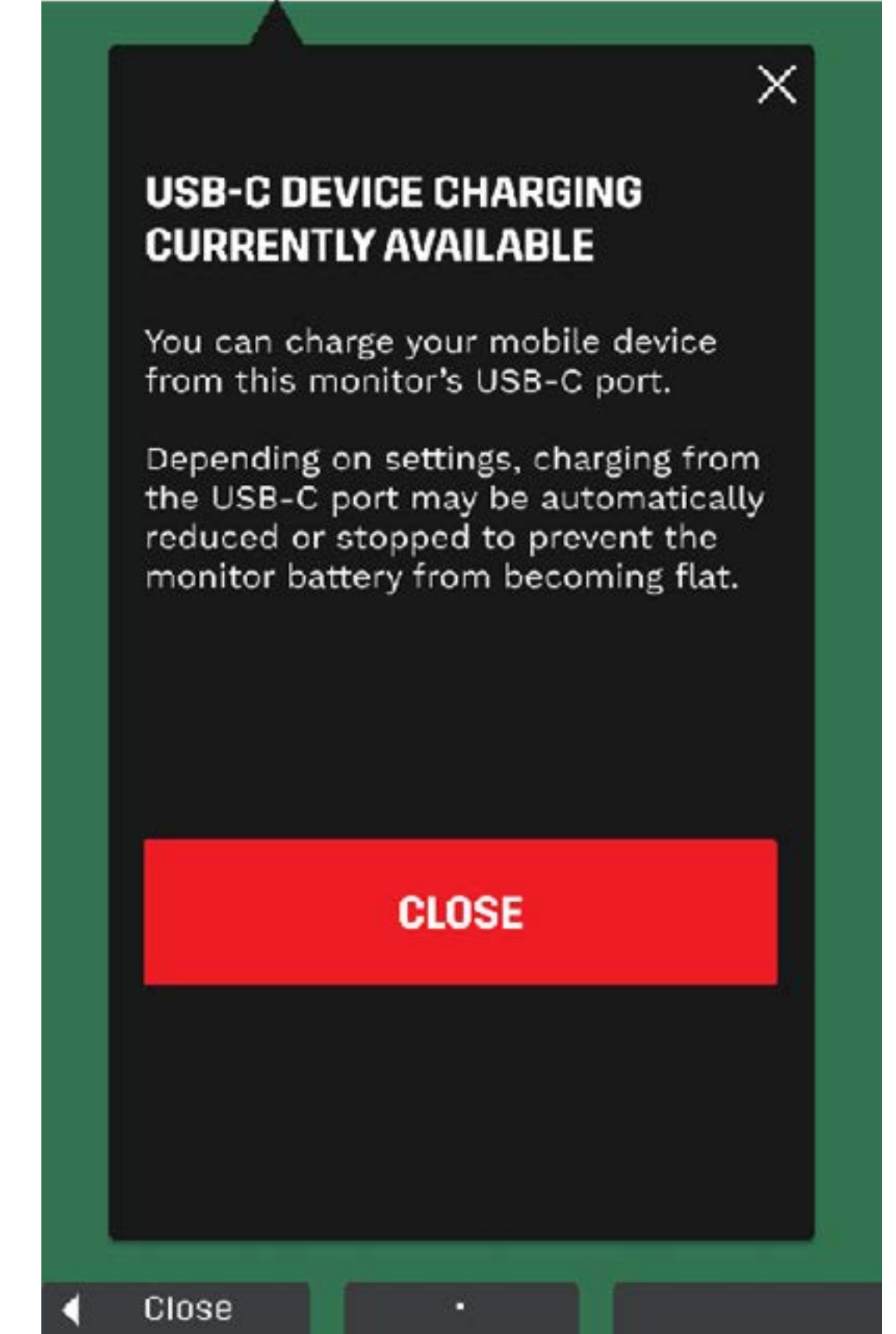
MAIN SCREEN - CHARGING



Battery symbol - Pressing on the battery symbol will indicate the percentage of charge left, it will also indicate if your Wattbike is currently charging. This may be via the internal generator or from an external power supply.

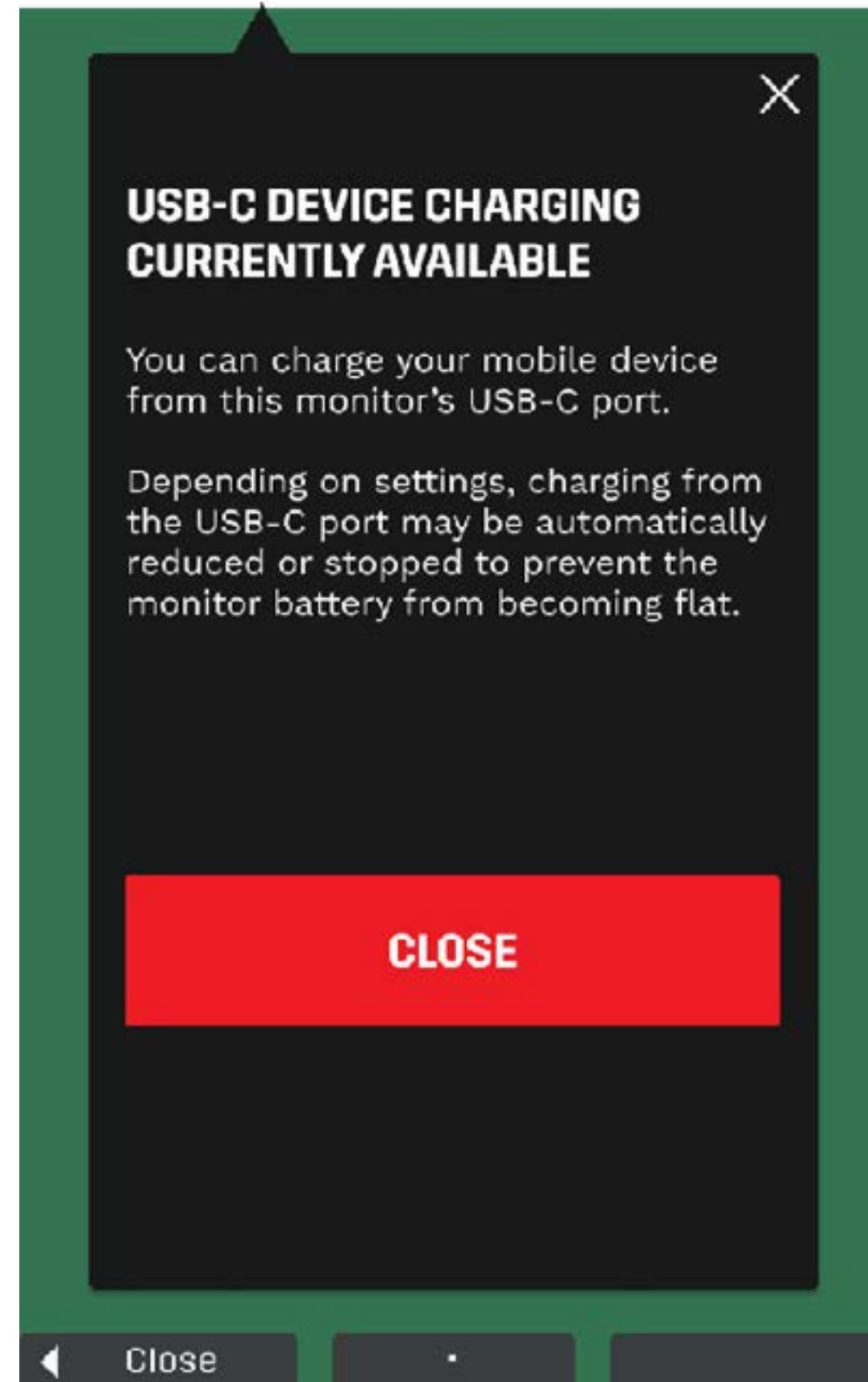


If the PTS2 is not charging, this may be because the bike is not plugged in (this is not required permanently) or because the bike is being pedalled below 50rpm.

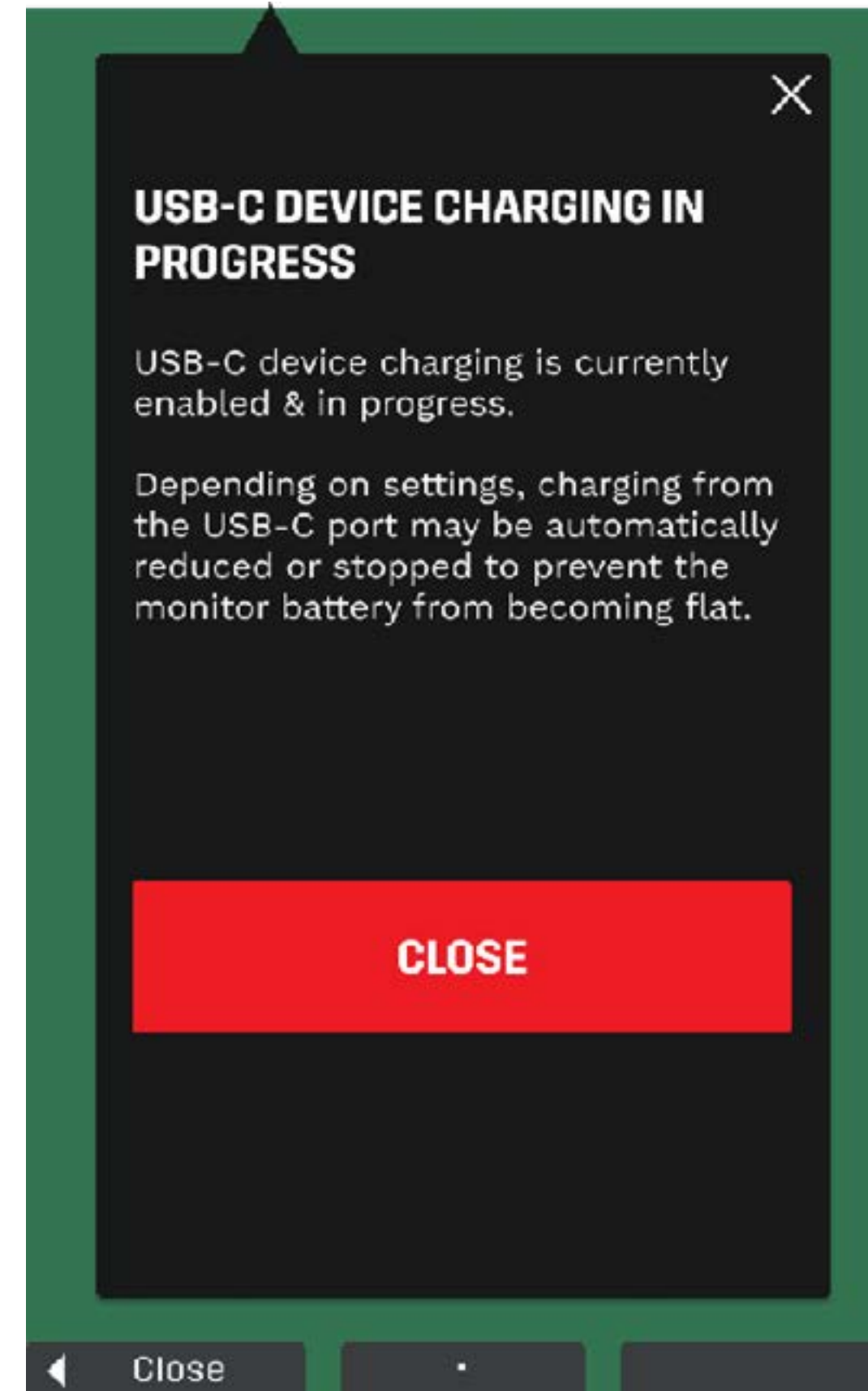


USB-C device charging - The PTS2 is able to provide charge to a mobile device, plug in via the USB-C port at the bottom of the screen.

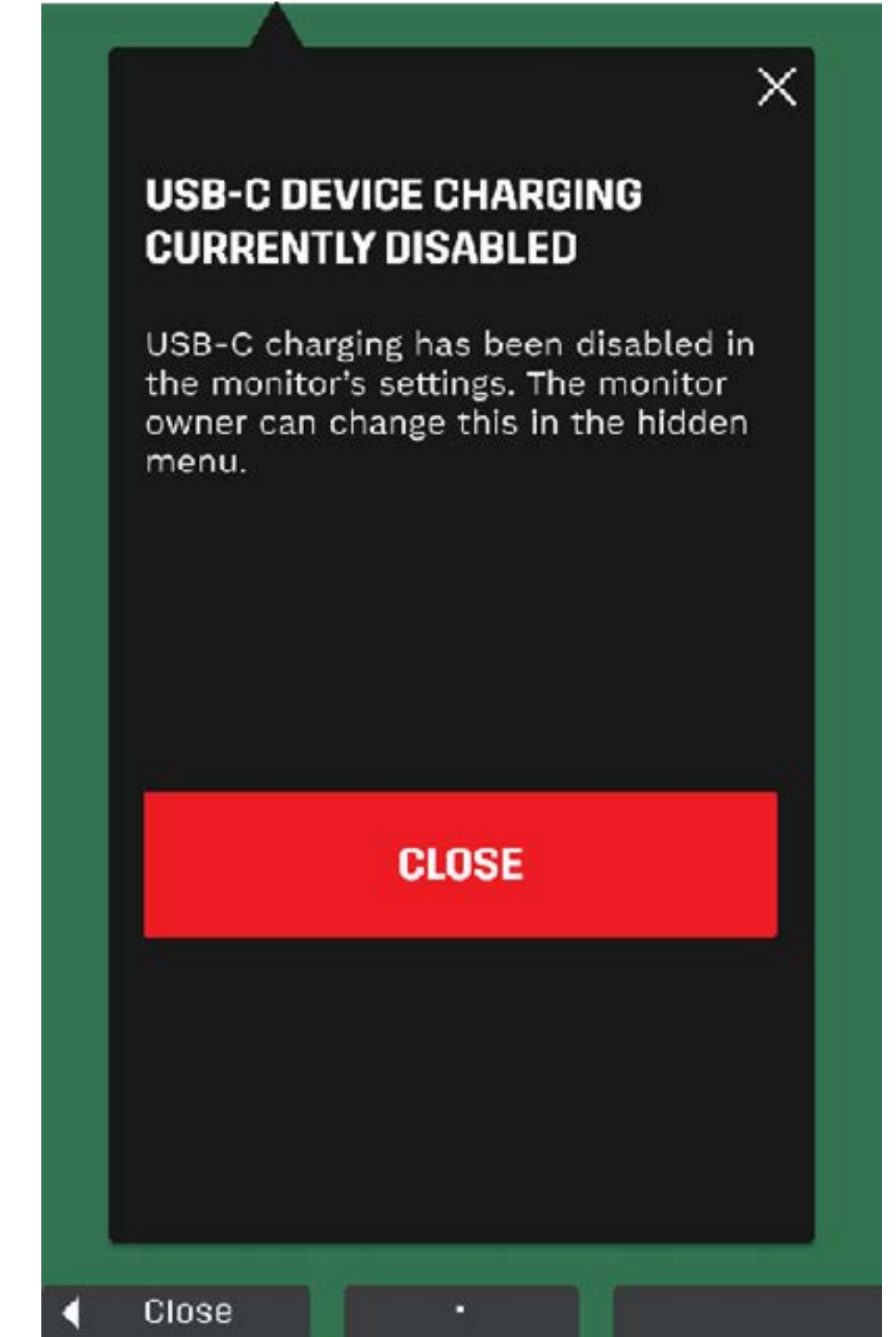
MAIN SCREEN - USB-C CHARGING



USB-C device charging - The PTS2 is able to provide charge to a mobile device, plug in via the USB-C port at the bottom of the screen.



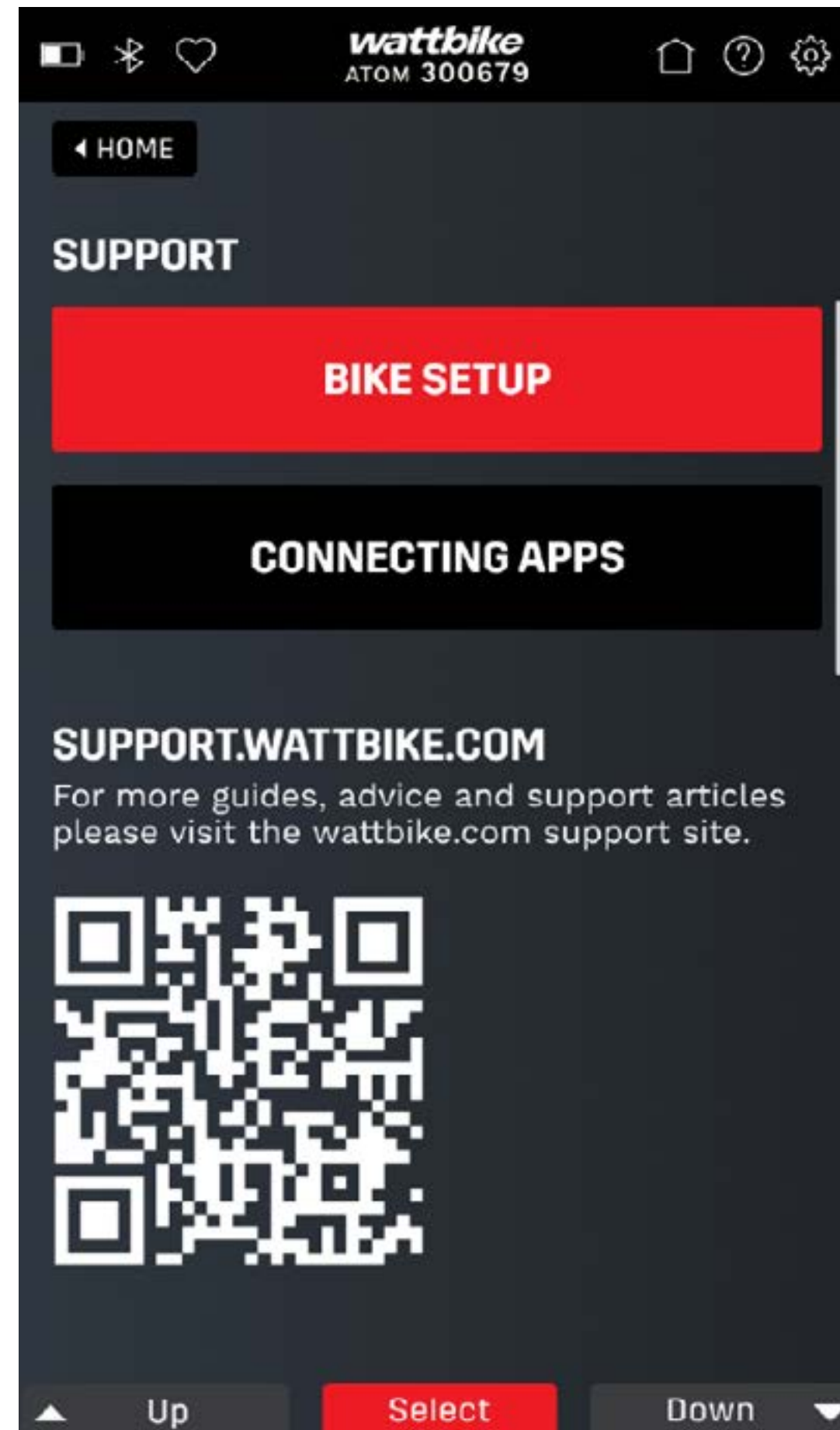
If the internal battery of the PTS2 is too low to provide a charge this function may be disabled, the bike will need to be plugged in or wait until the PTS2 has a sufficient charge.



The USB-C charging function can be turned off, this will prevent the battery from draining too quickly.

MAIN SCREEN - SUPPORT

All of the below can be found by pressing the Help Icon or via the “Set Up & Pair Tile”.



Pressing the help icon will offer three options, advise on bike set up & positioning, how to connect to third party apps or directions to Wattbikes online support page.

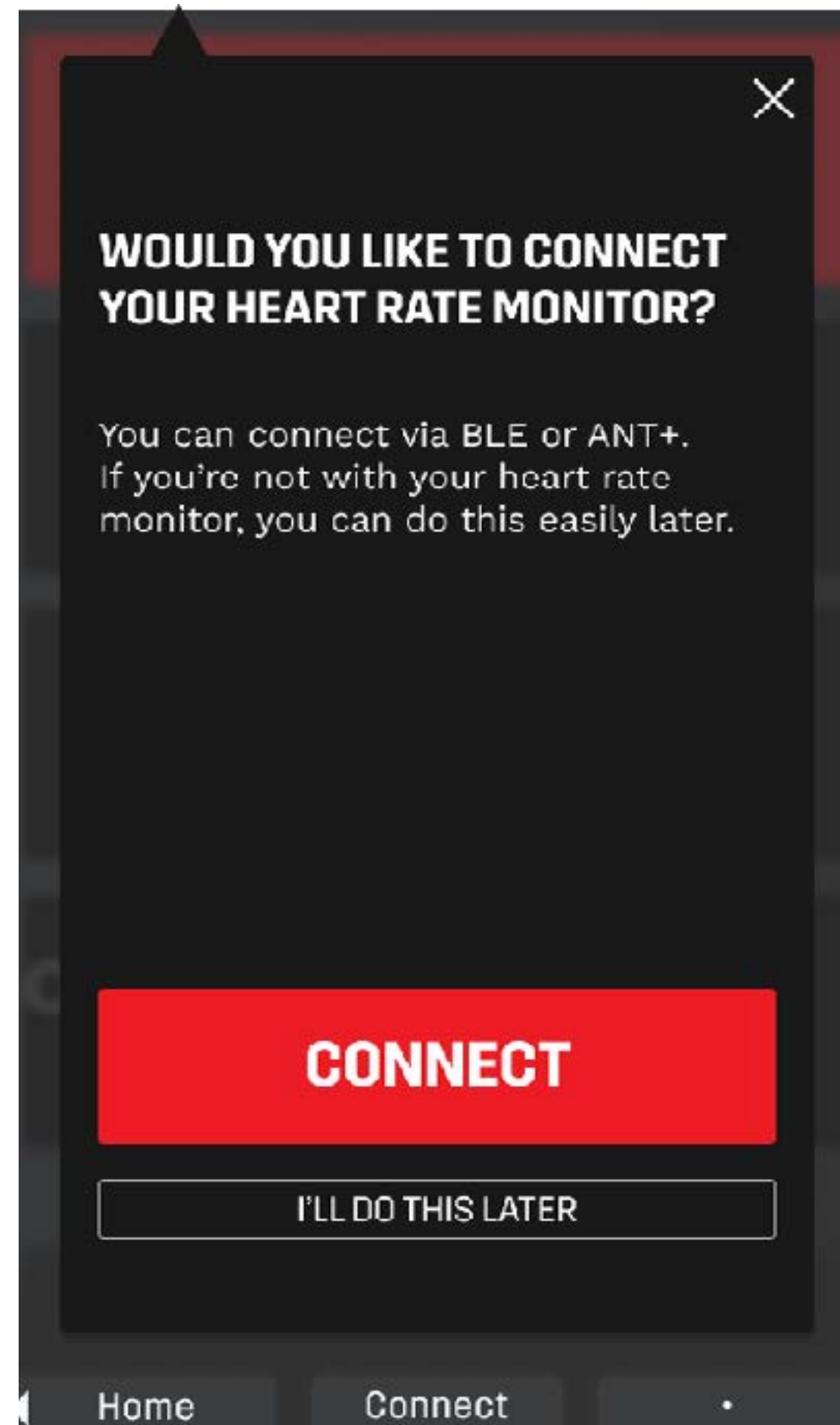


Pressing on bike set up will offer support on set up of ride positioning - you can also scan the QR code to access a video of this process.

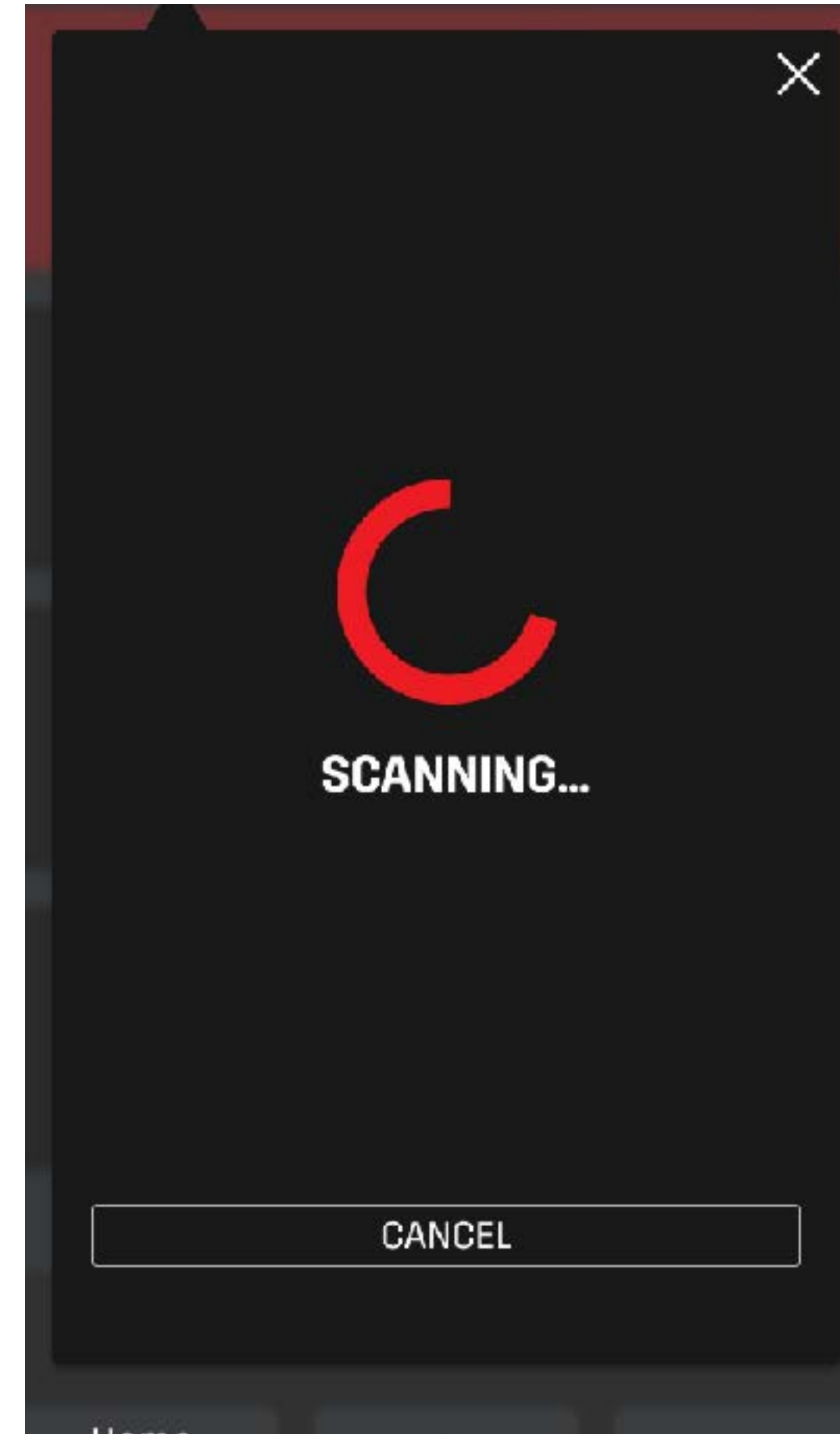


Pressing on ‘Connecting Apps’ will show the process for connecting to the Wattbike Hub App and all that it offers. It also explains the process for connecting to 3rd party apps.

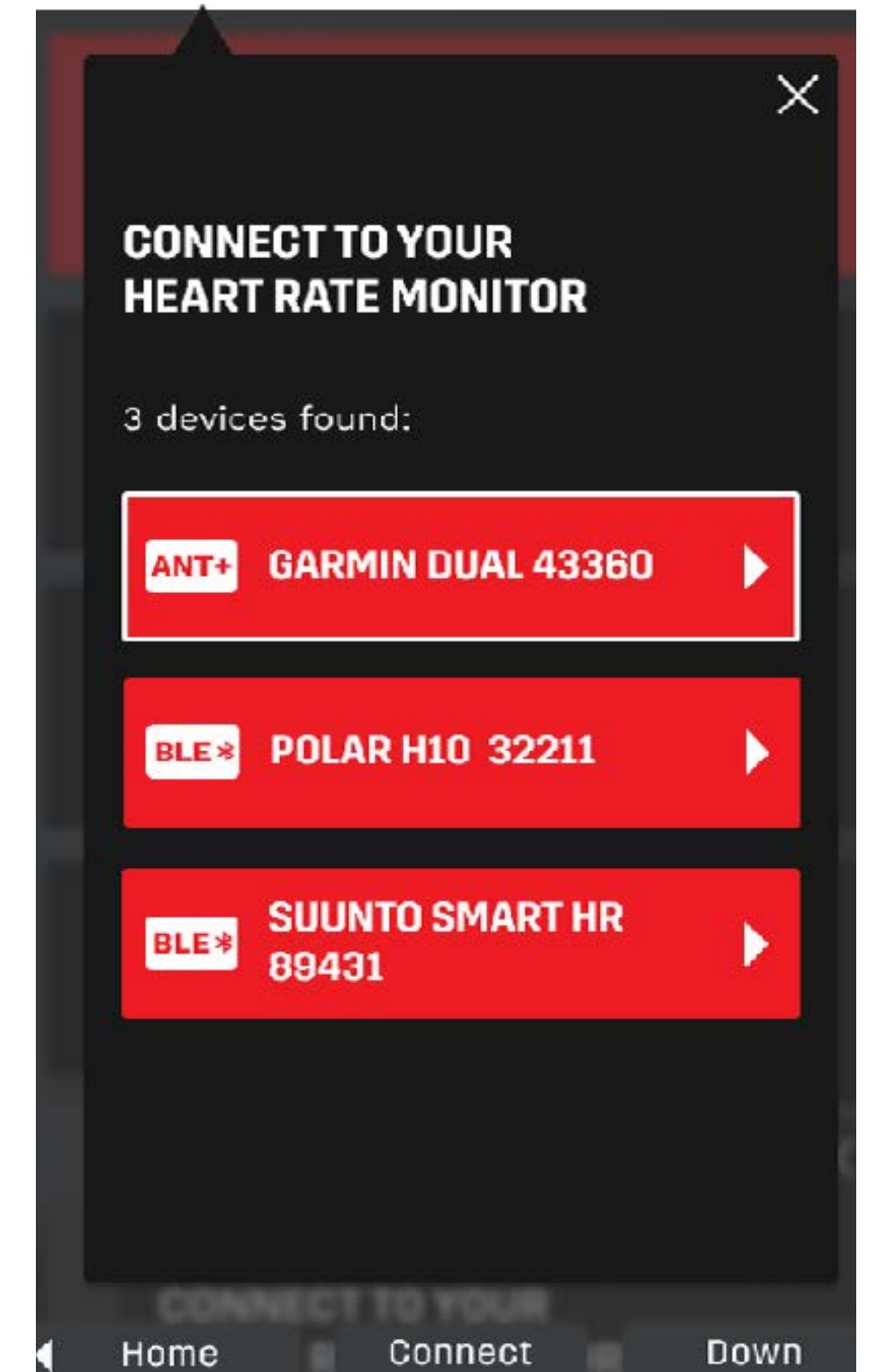
HEART RATE MONITOR CONNECTIVITY



Pressing onto the HRM icon on the top menu will open the HRM connection page, press “Connect” to search for all available HRM.

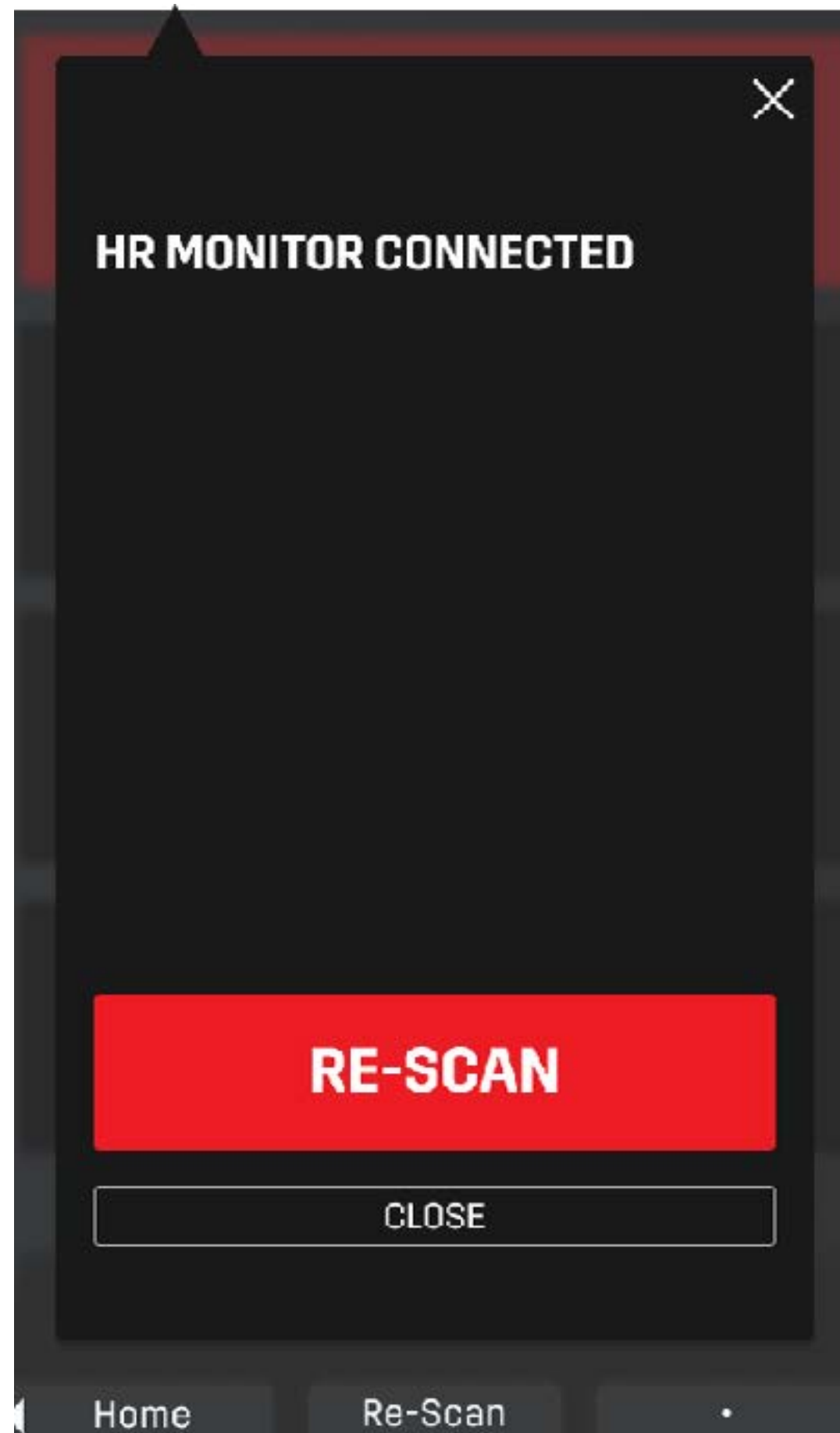


Ensure the HRM needing to be connected is close to the device and turned on.

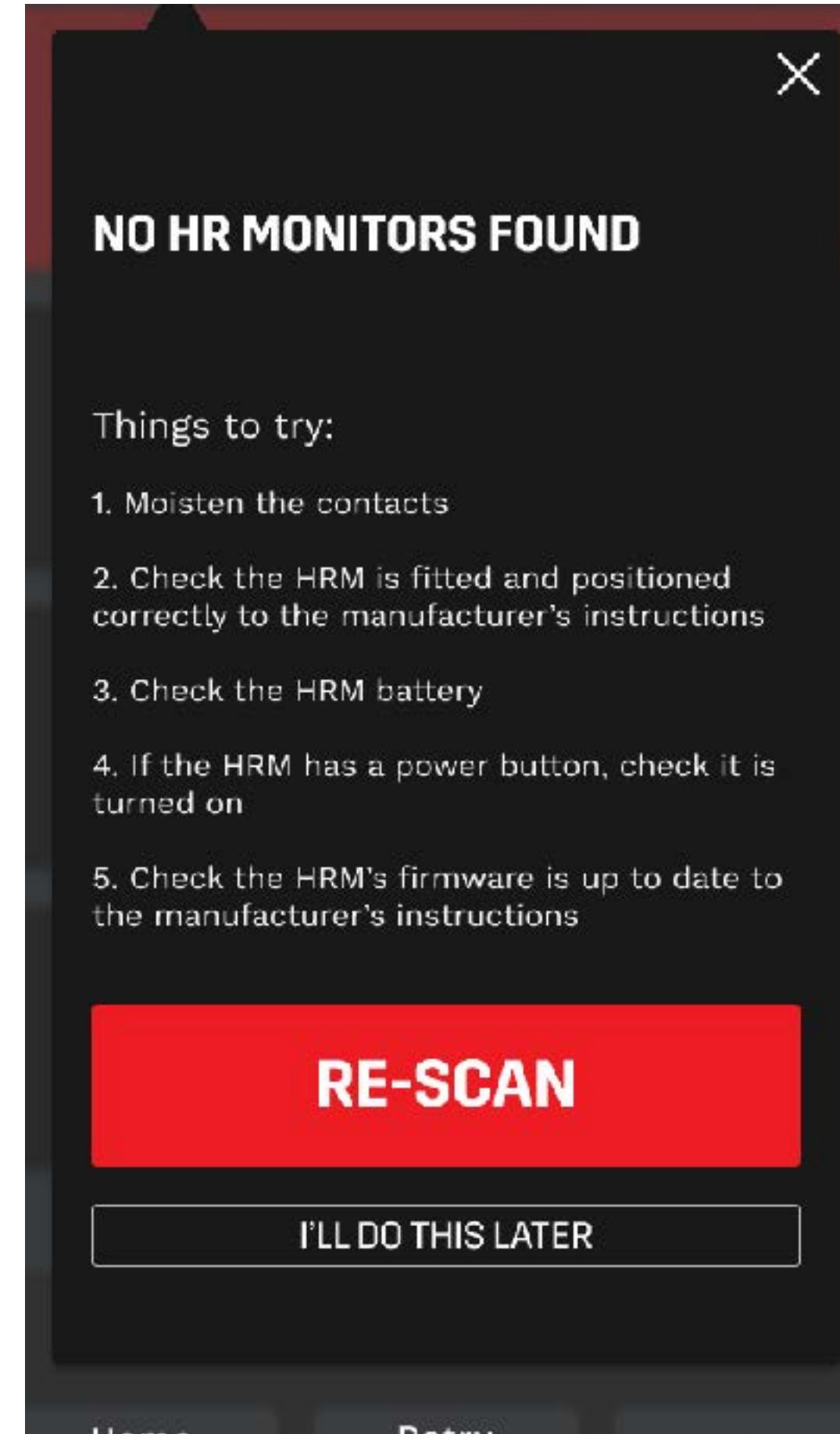


All available devices within range will show, only one can be connected to the PTS2 at a time. Ensure the correct HRM is selected.

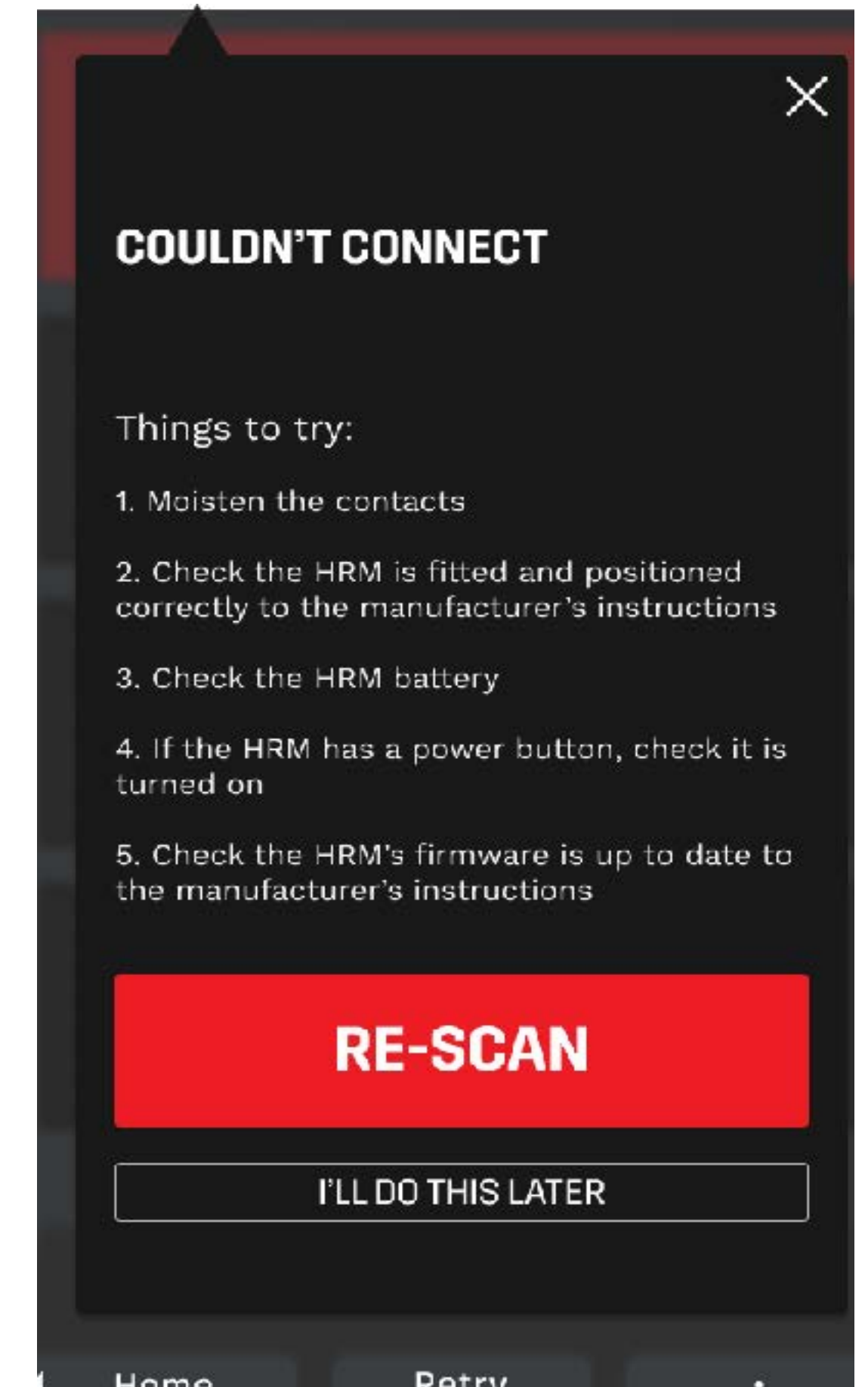
HEART RATE MONITOR CONNECTIVITY



Once a HRM is connected the symbol in the top left will change. No other HRMs will be able to be connected.



If no HRM can be found, follow the steps shown above. It may also be required to try a different heart rate monitor.

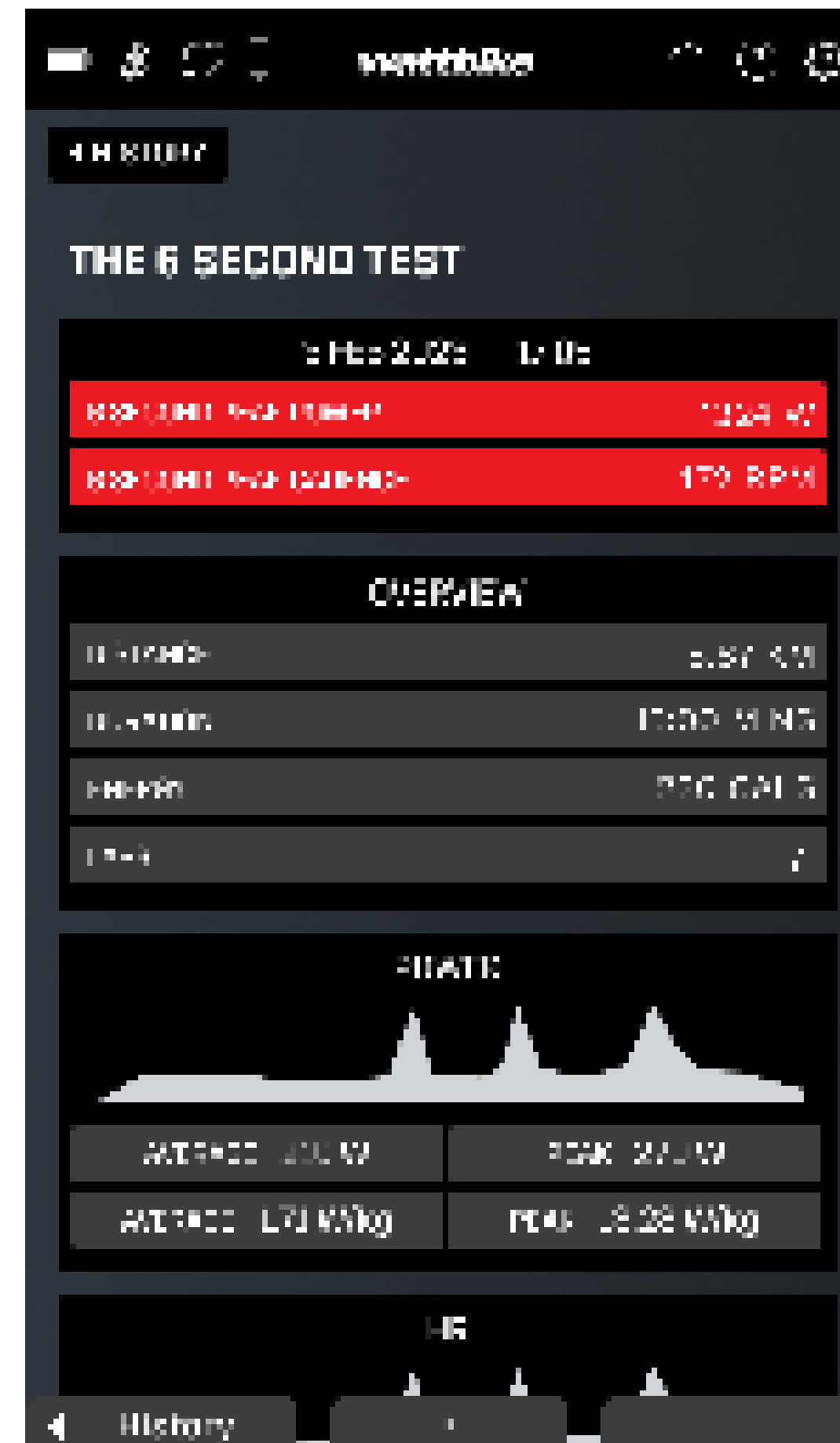


HISTORY

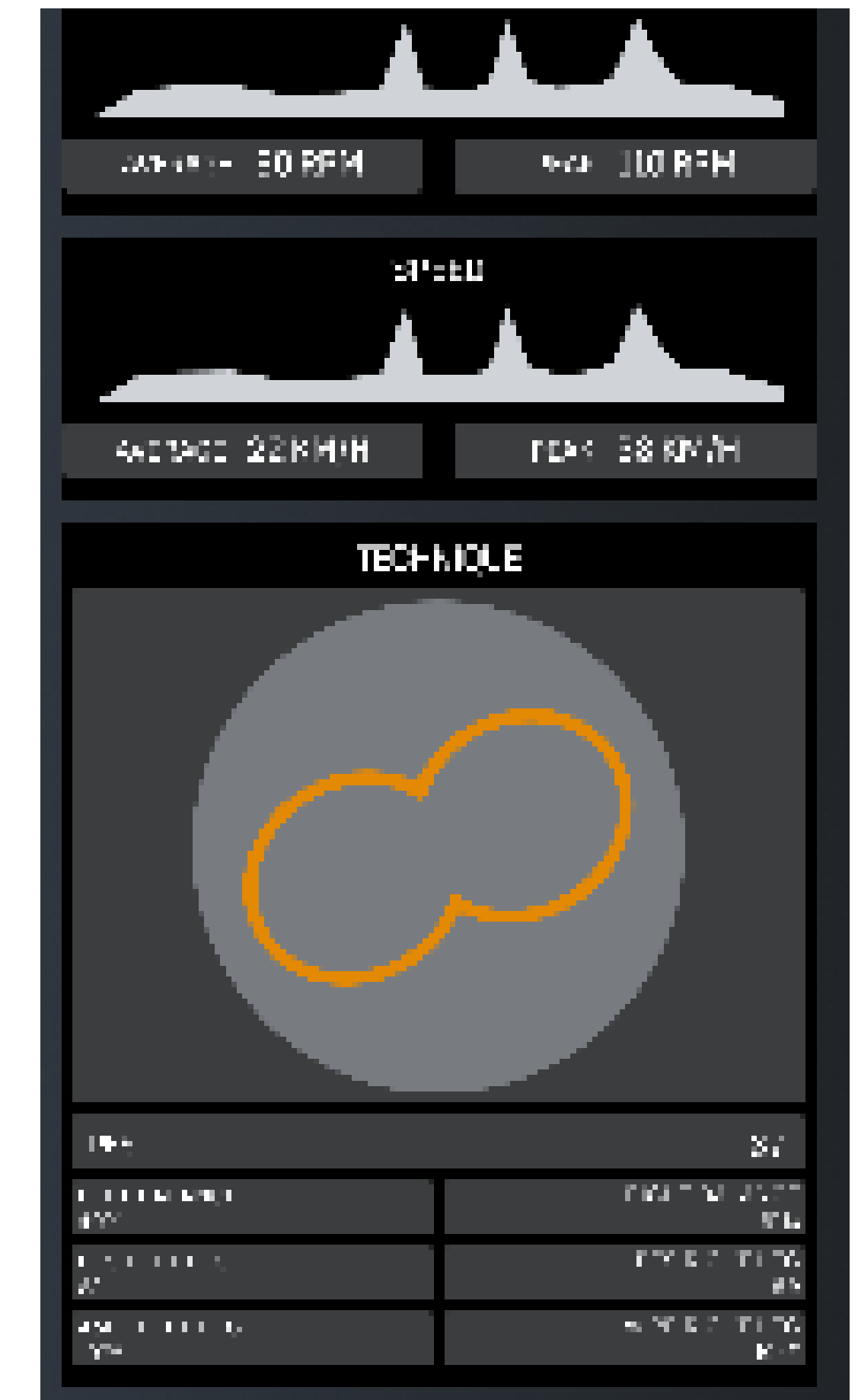


In the 'History' screen, you can view all rides previously completed on this Wattbike (unless a user was logged in when it was completed).

See pictures to the right for what will be presented.



The above picture is an example of the type of data that is available in the ride detail of a ride summary.



As well as the information in the picture on the left, information regarding Polar View and PES will also be available. More in depth analysis can be found at hub.wattbike.com

MAIN SCREEN - SYMBOLS

The symbols below are the symbols you can expect to see along the top menu bar, use these to help diagnose any faults or issues with your PTS2.

-  Connected
-  Disconnected
-  Disabled

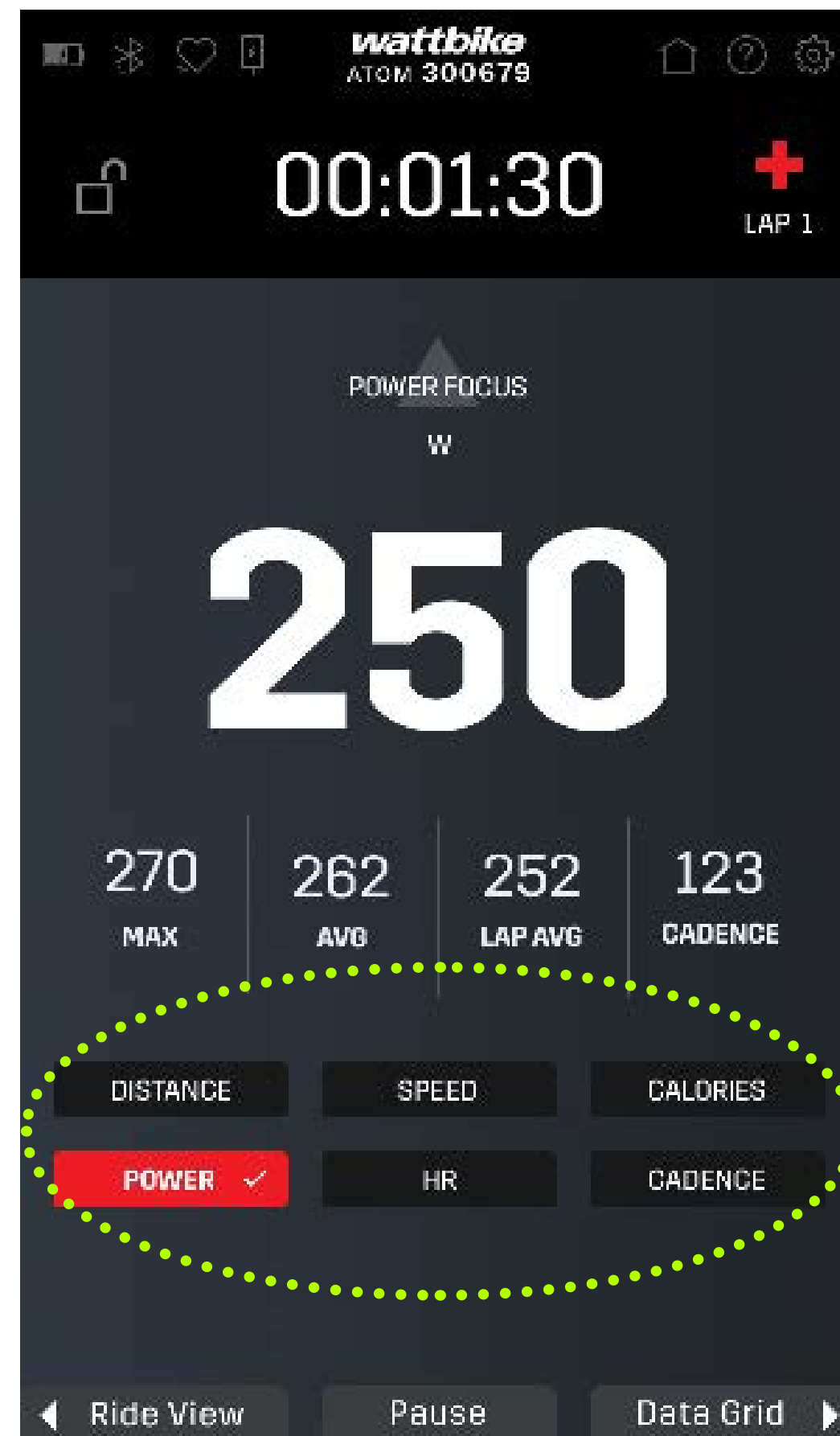
-  USB-C Charging Disabled
-  USB-C Charging Available
-  USB-C Charging In Progress

-  Connected
-  Disconnected

-  Battery Level 3 ($\geq 80\%$) - Charging
-  Battery Level 2 ($50 \leq < 80\%$) - Charging
-  Battery Level 1 ($20 \leq < 50\%$) - Charging
-  Battery Level 0 ($< 20\%$) - Charging
-  Battery Level 3 ($\geq 80\%$) - Not Charging
-  Battery Level 2 ($50 \leq < 80\%$) - Not Charging
-  Battery Level 1 ($20 \leq < 50\%$) - Not Charging
-  Battery Level 0 ($< 20\%$) - Not Charging

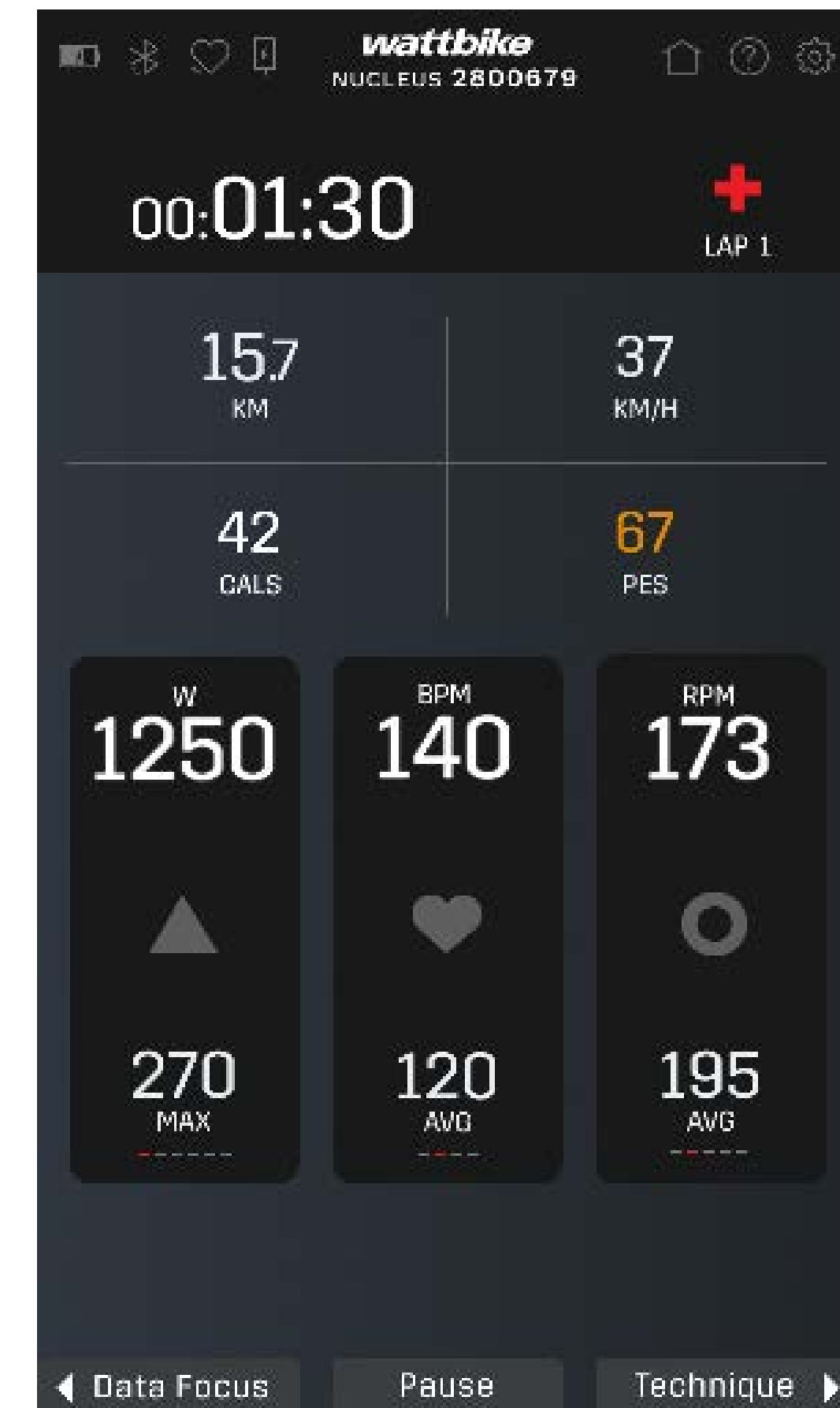
03 QUICK RIDE SCREENS

DATA FOCUS & DATA GRID



Data focus - All of the metrics circled can be pressed on to rotate through the different options available. This will depend on the users focus and priorities for training.

Cadence will always be a constant value on each screen.

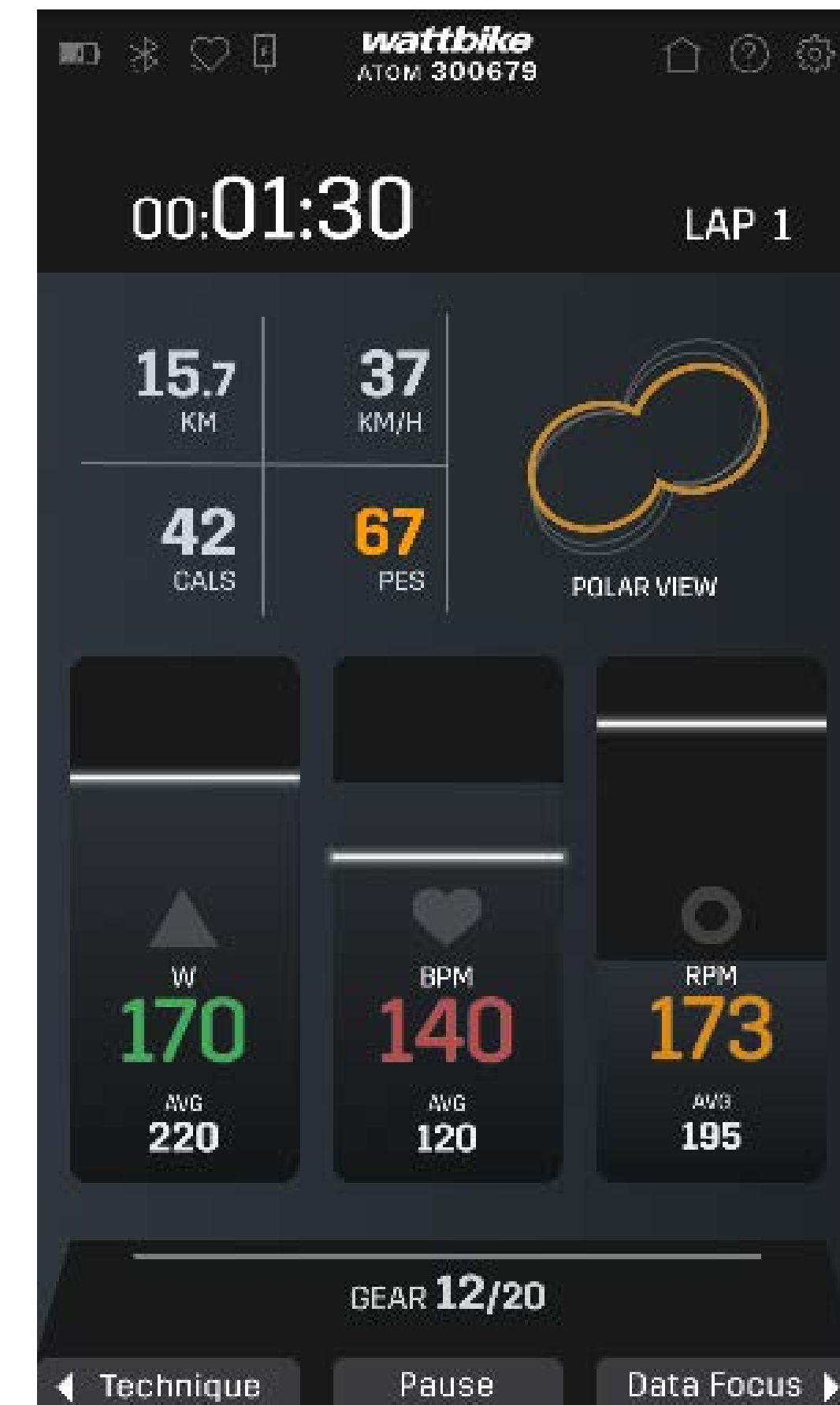


Data grid - This screen provides your metrics in the same style as the Hub App. Each of the larger black boxes can be pressed on to cycle through additional data, such as max or average values.

TECHNIQUE & RIDE VIEW

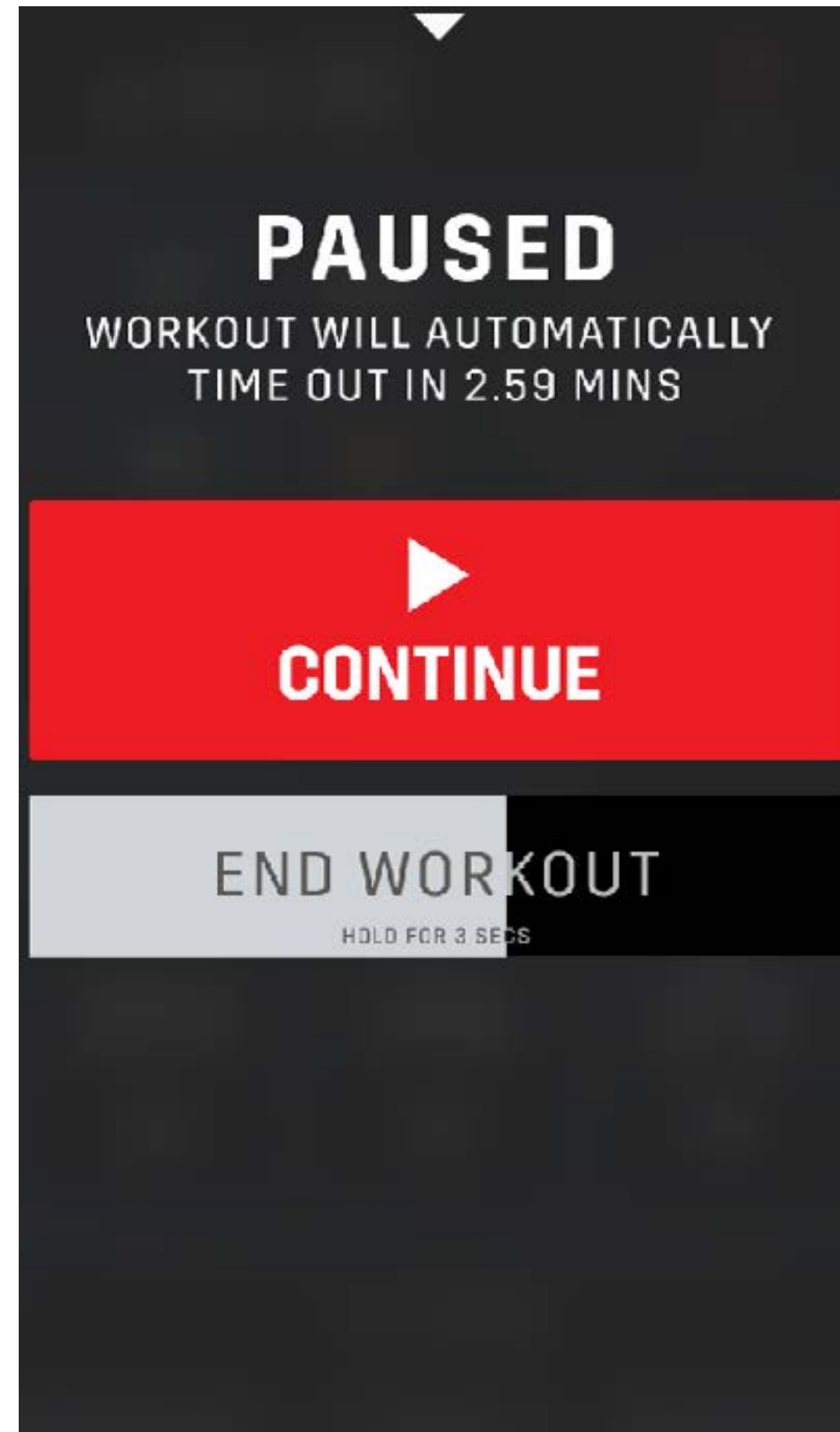


Technique - This screen will allow the user to focus on their pedalling technique using Wattbikes Polar View and Pedal Effectiveness Score.

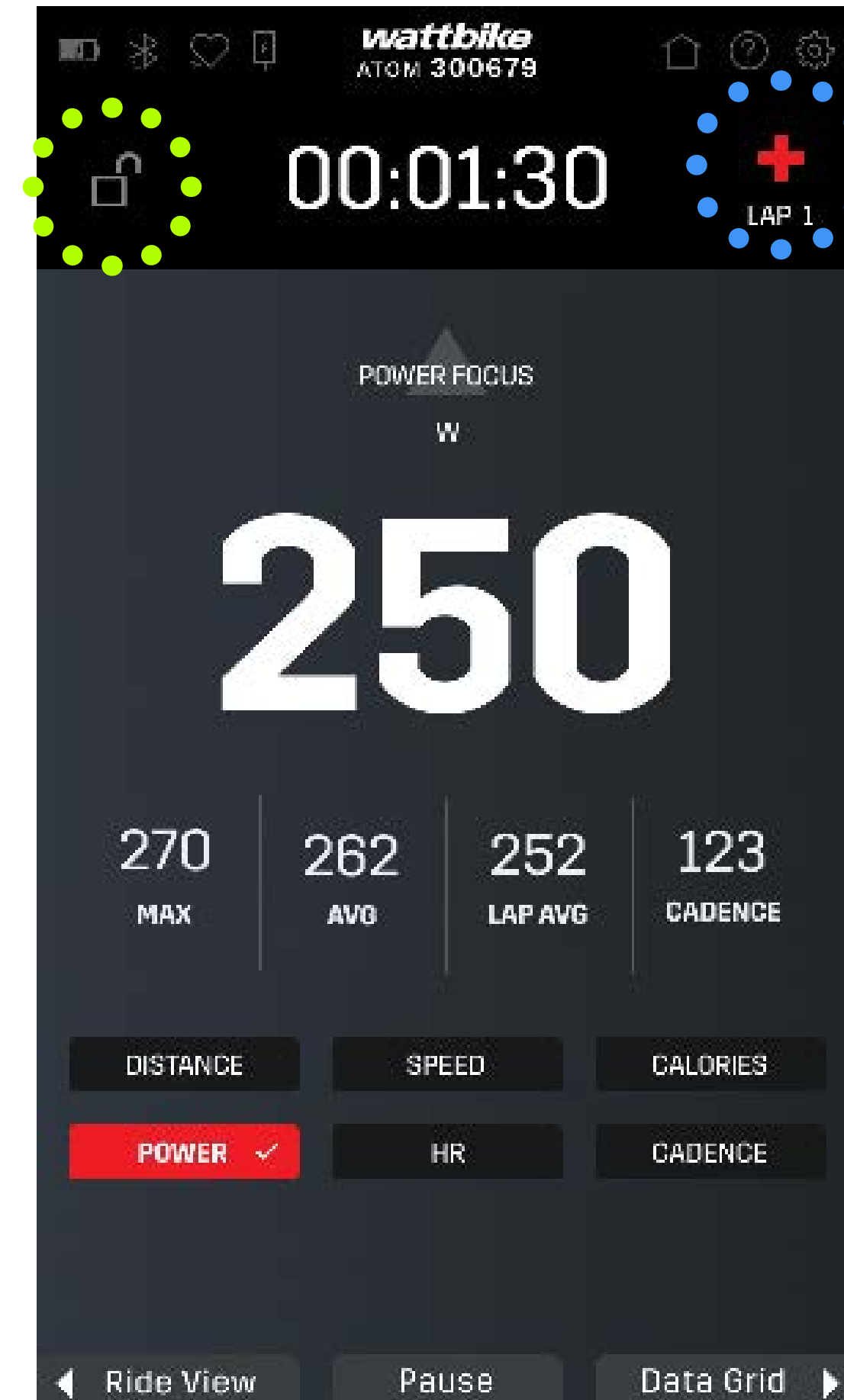


Ride view - This screen allows the user to view all metrics as well as their Polar View.

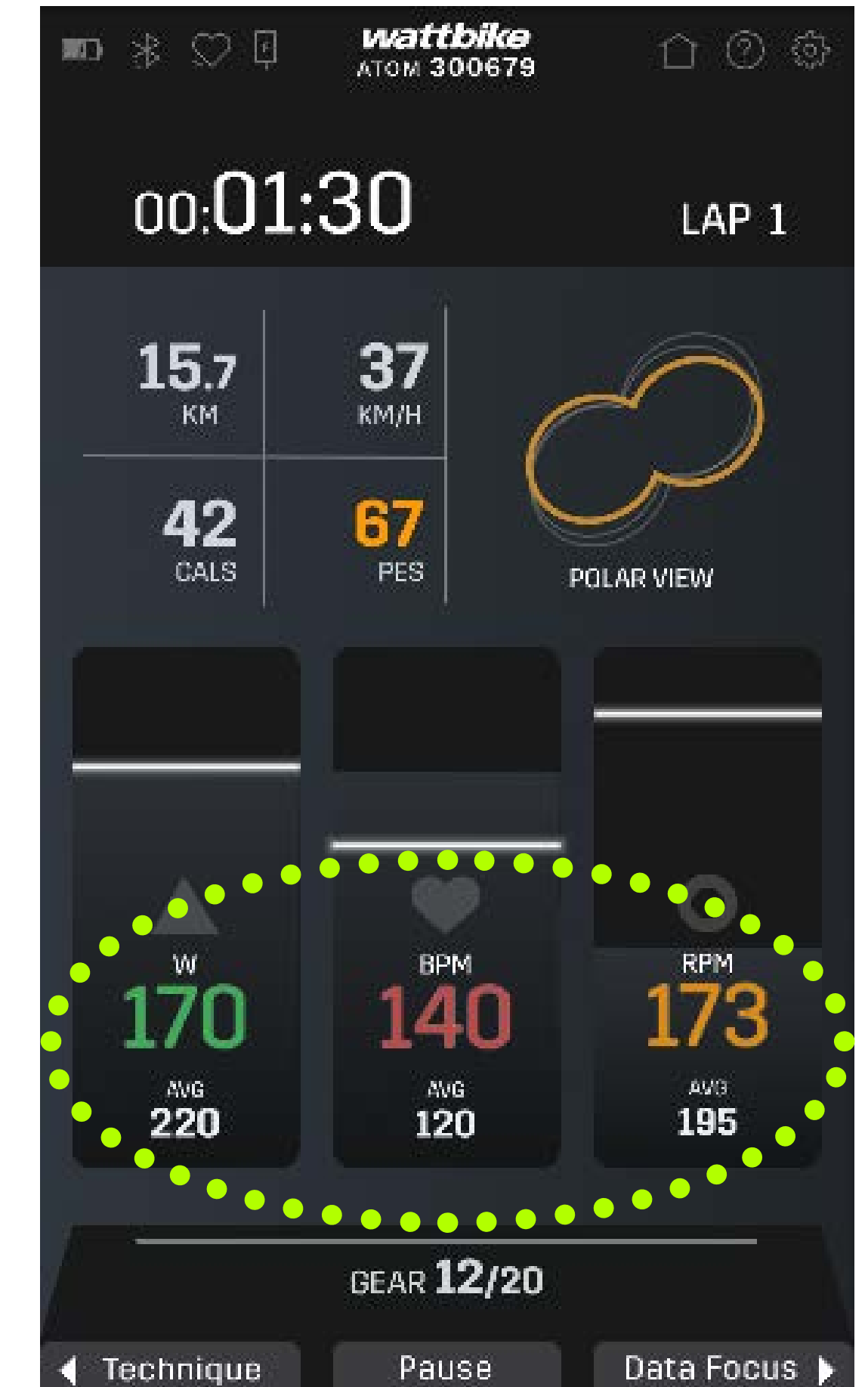
RIDE SCREEN



Pausing a workout will show the above screen, hold the “End Workout” button for 3 seconds to finish the ride. The session will automatically time out - this time can be altered.



Within the ride screen, the screen can be locked by pressing the button highlighted above in green. An additional lap can be added to the workout by pressing the button highlighted in blue.



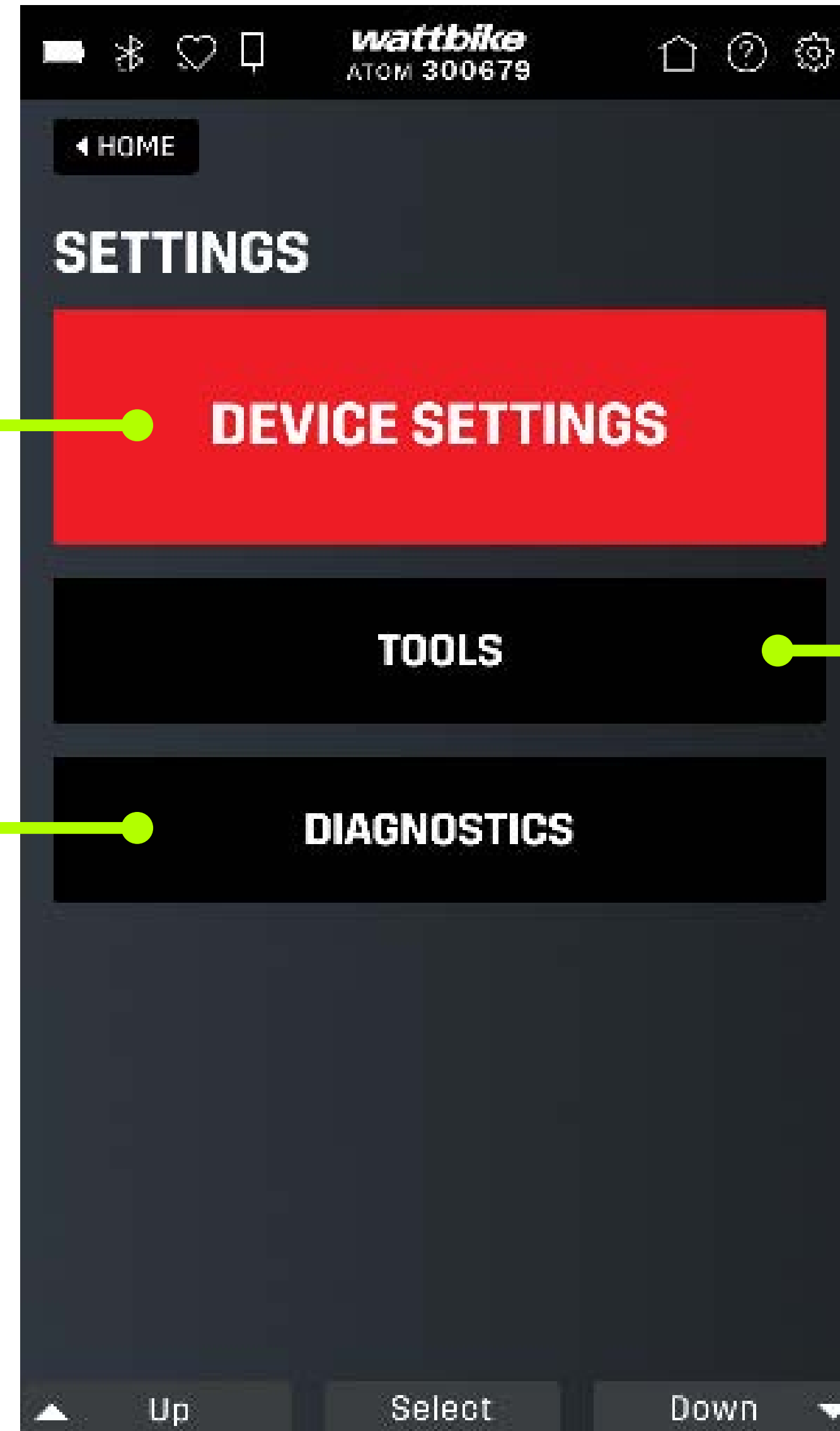
All metric tabs can be pressed to show additional values, e.g. avg power, w/kg, RPM per lap, HR zones.

04 SETTINGS

SETTINGS - MAIN PAGE

Device settings - all device settings and alterations can be made here. This menu is explained in depth over the next few pages.

Diagnostics - This section provides information about the internal components of the PTS2 and Wattbike it is connected to.

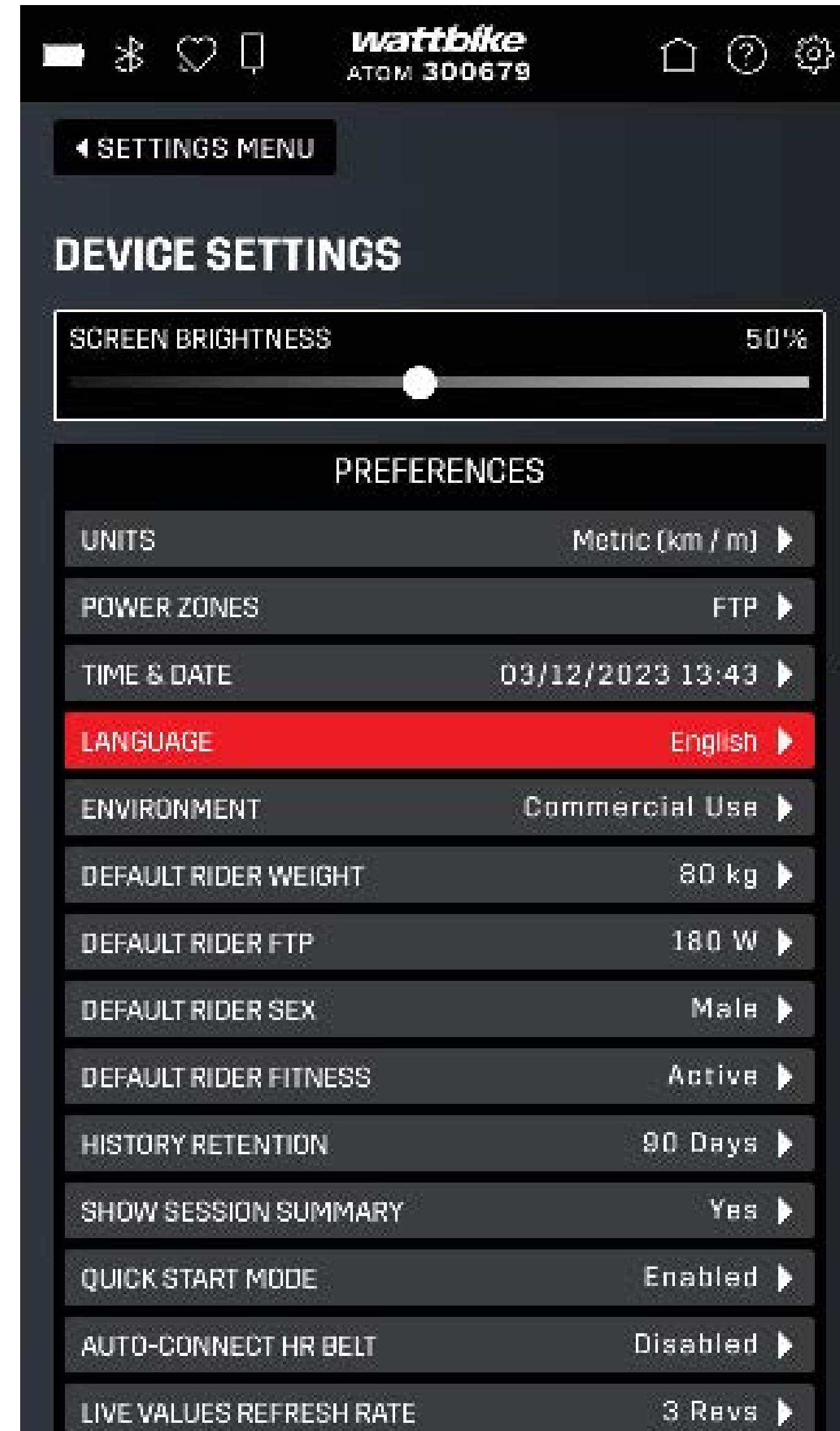


Tools - This section of the PTS2 can be used to Set Zero State and access the Hidden Menu (page 30)

DEVICE SETTINGS - HOME PAGE

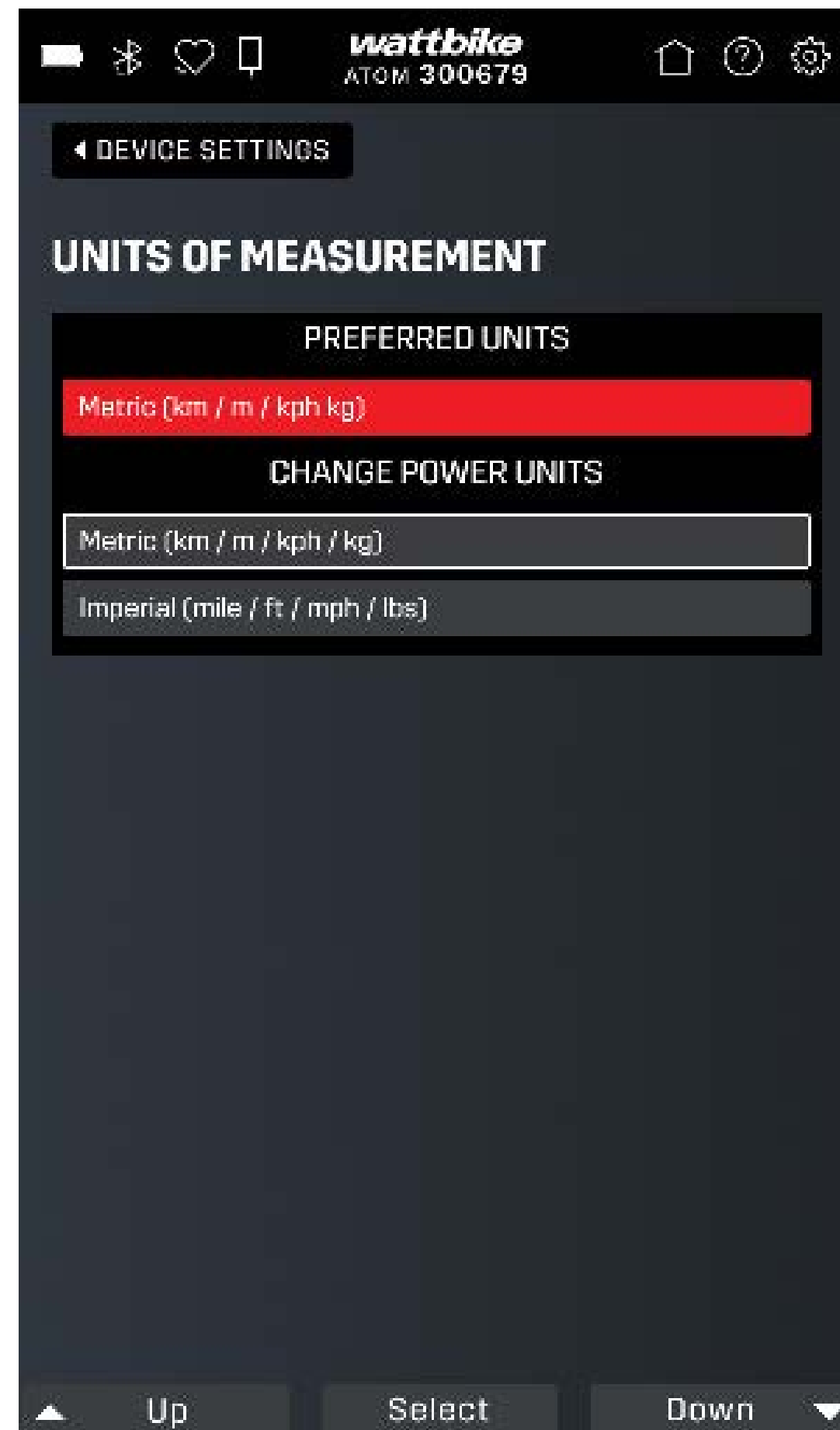
Screen brightness -

The brightness setting of the screen can be manually adjusted by a user if needed. A default setting for brightness can be set in the Hidden Menu.

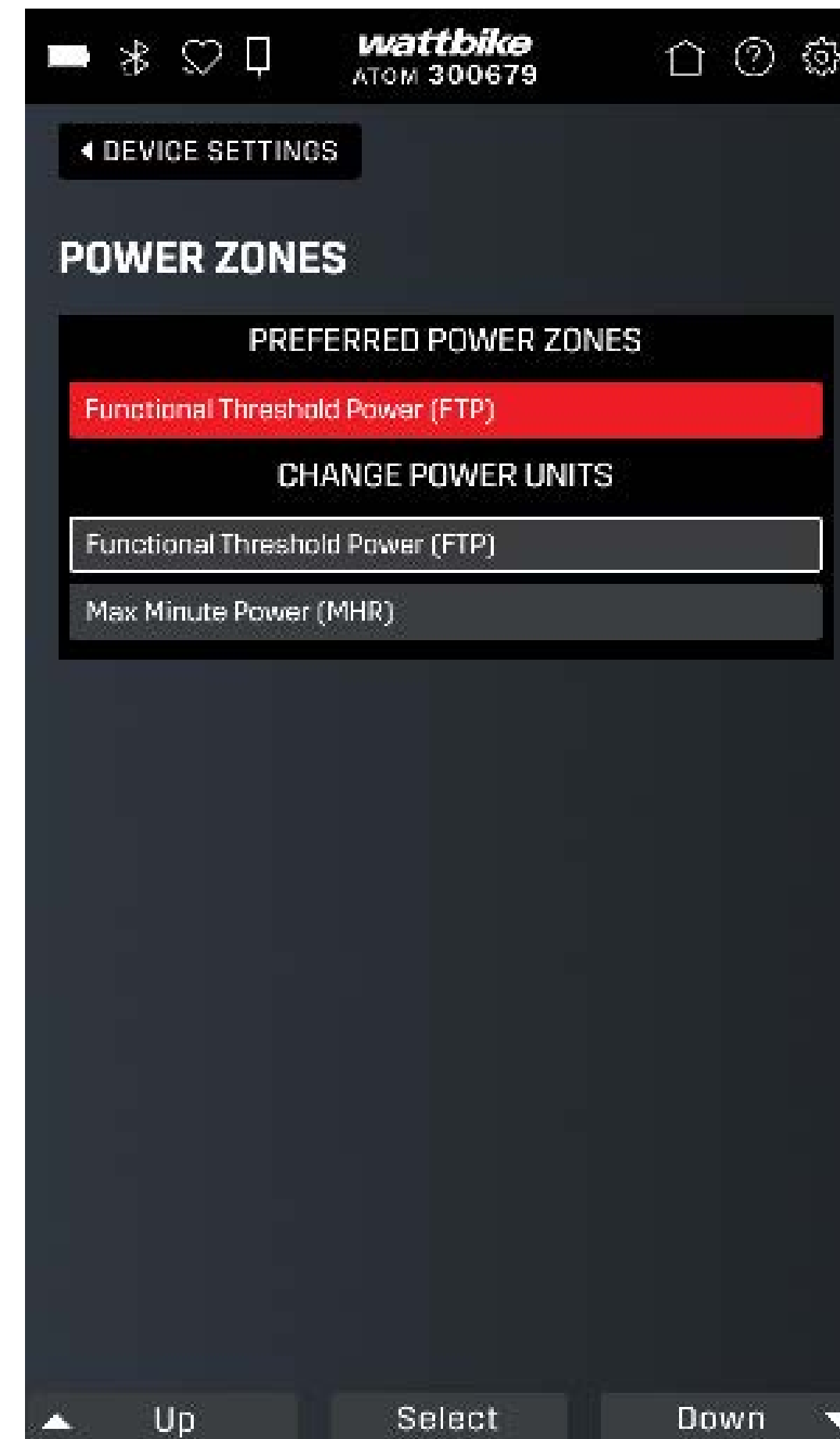


All other device settings are explained over the next few pages.

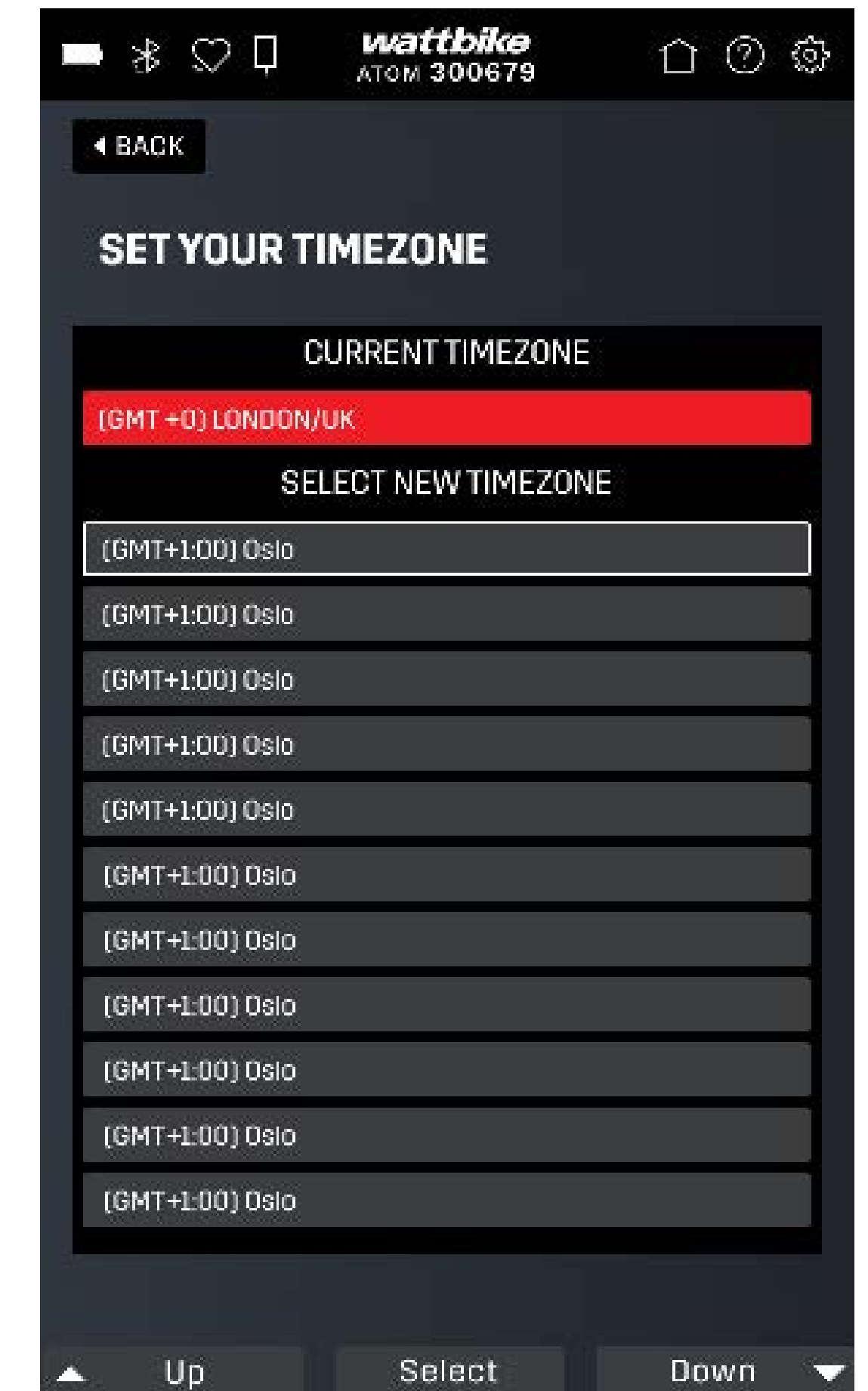
UNITS, POWER ZONES, TIME & DATE



This setting can alter the standard units displayed from metric to imperial, depending on your preference.

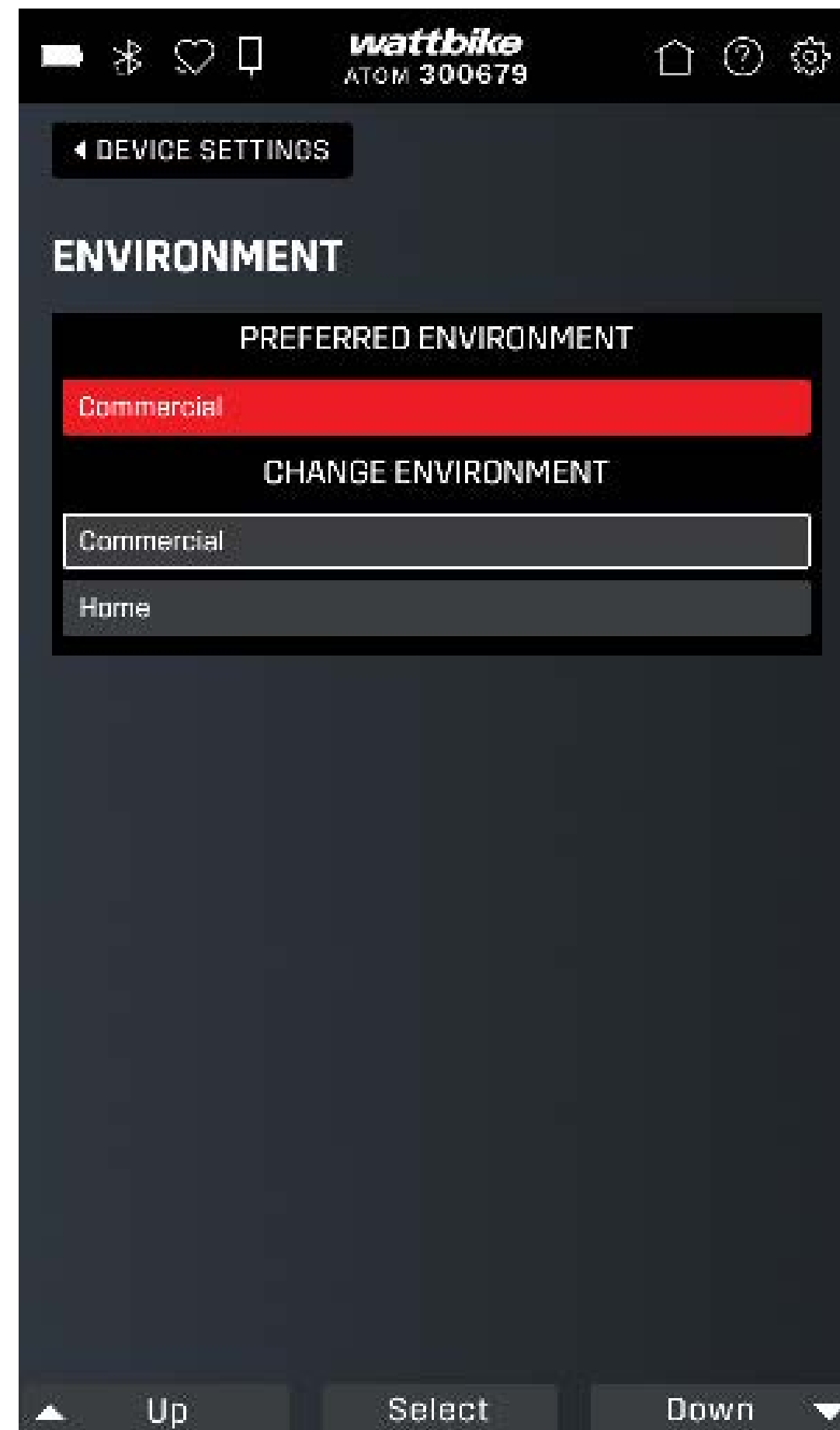


This setting will alter the preferred power zone from MMP to FTP. This will be used to control the power zones within your workouts.

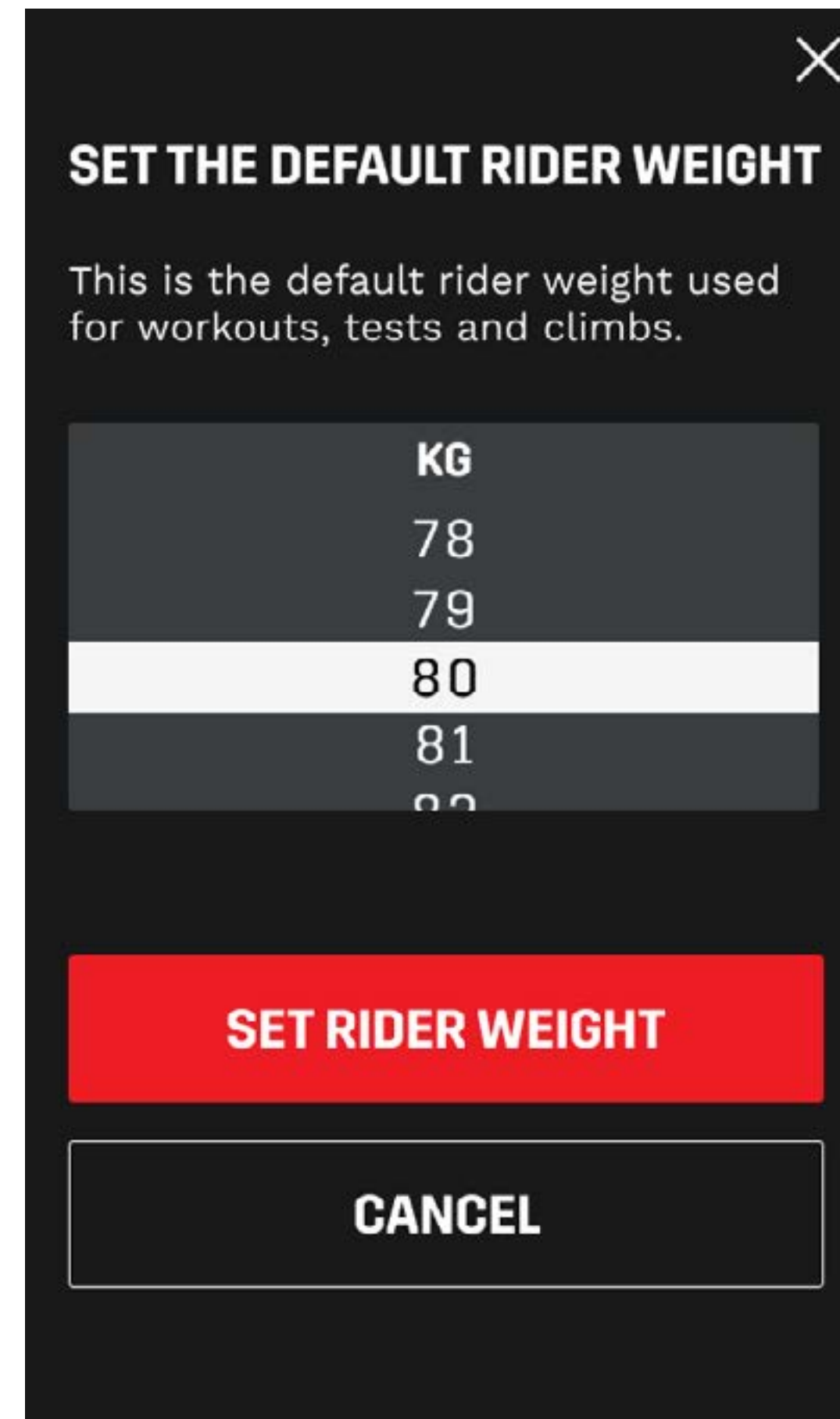


Adjust date/time zone based on your current location or manually amend your time.

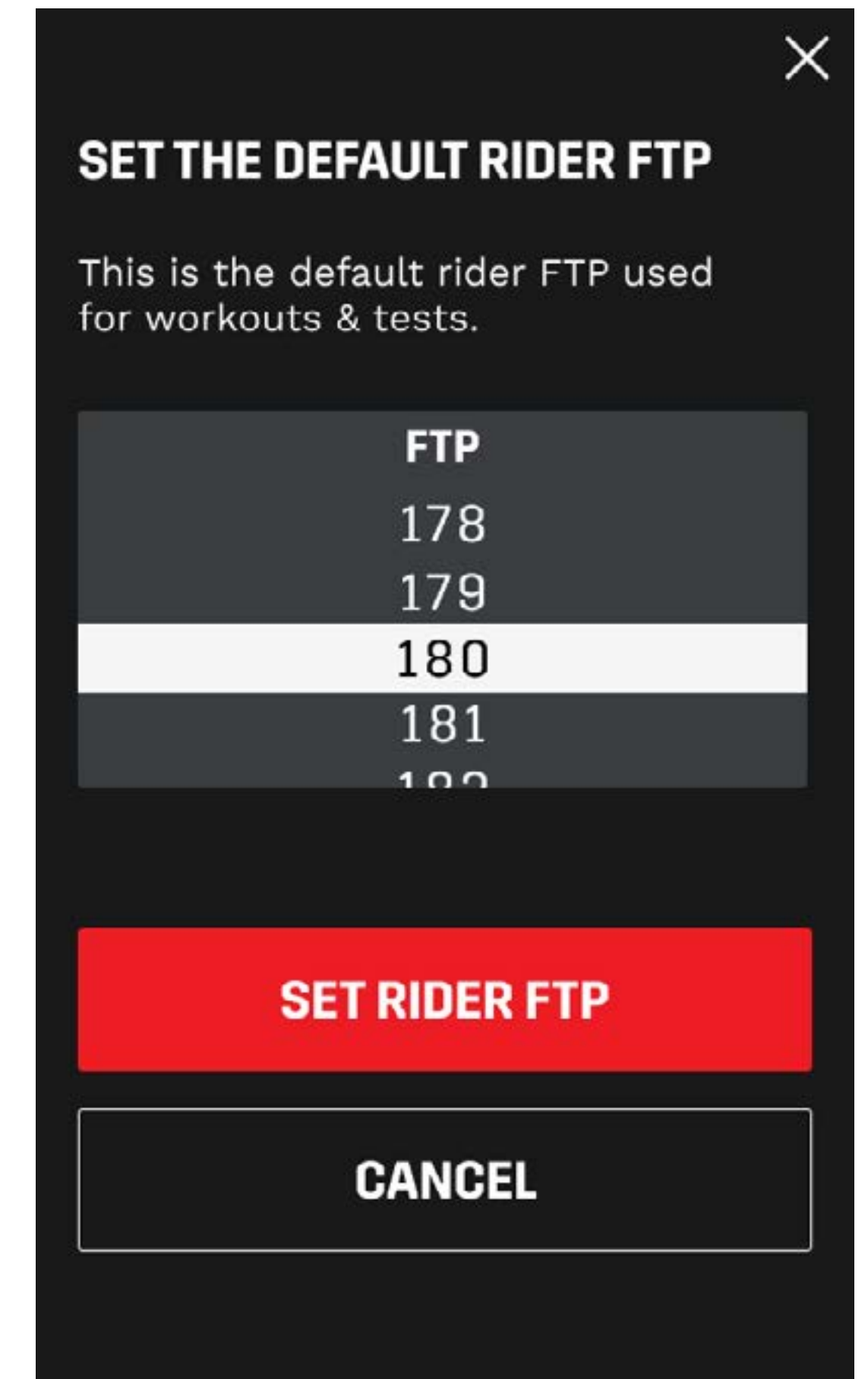
ENVIRONMENT, DEFAULT RIDER WEIGHT, DEFAULT RIDER FTP



Commercial or Home - changing this will alter certain settings. Set this correctly to ensure users require minimal configuration for their PTS2.

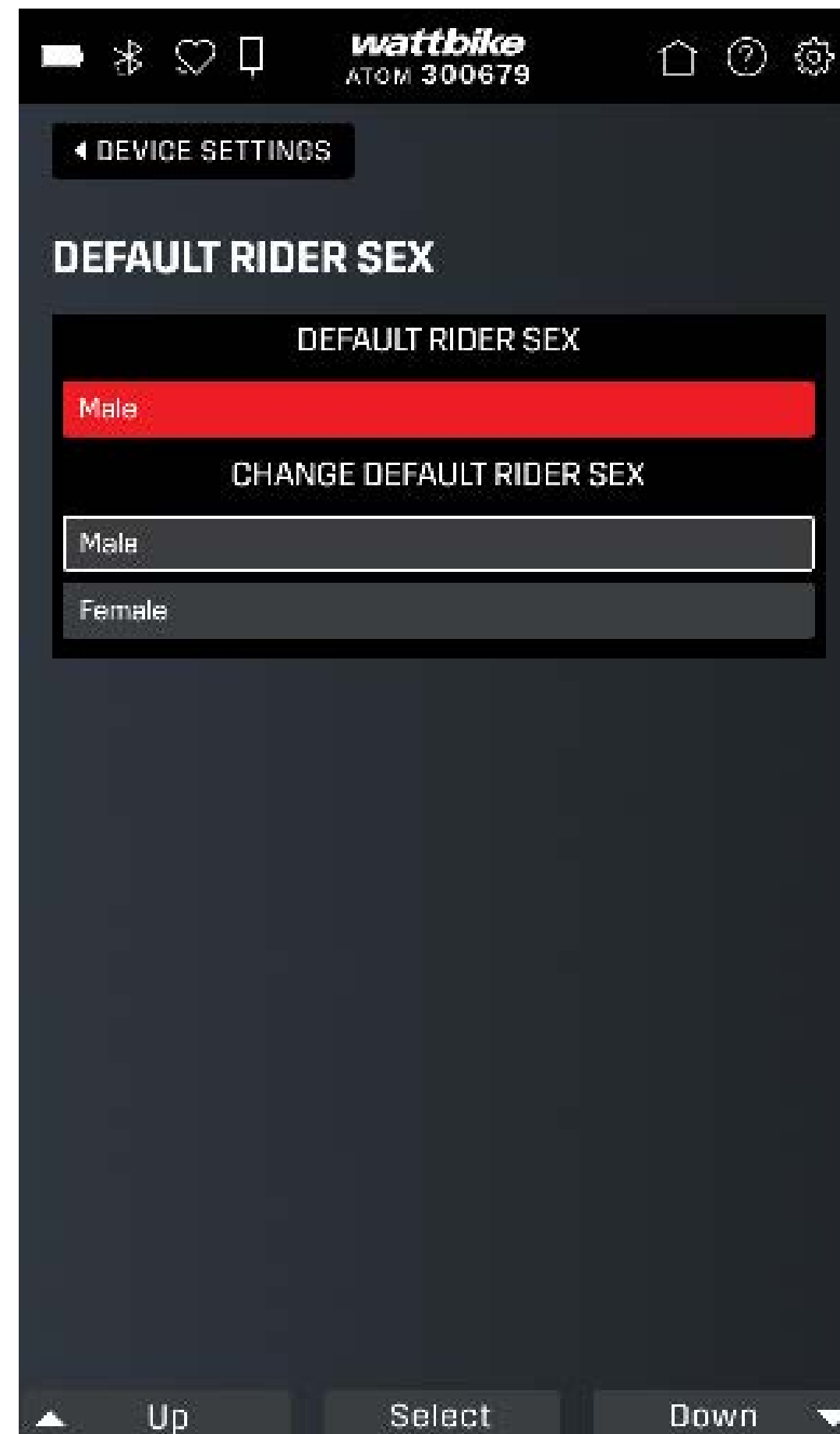


Set the default weight of a user (if a Hub account is not logged in). This will affect the wattage value shown if not altered correctly.

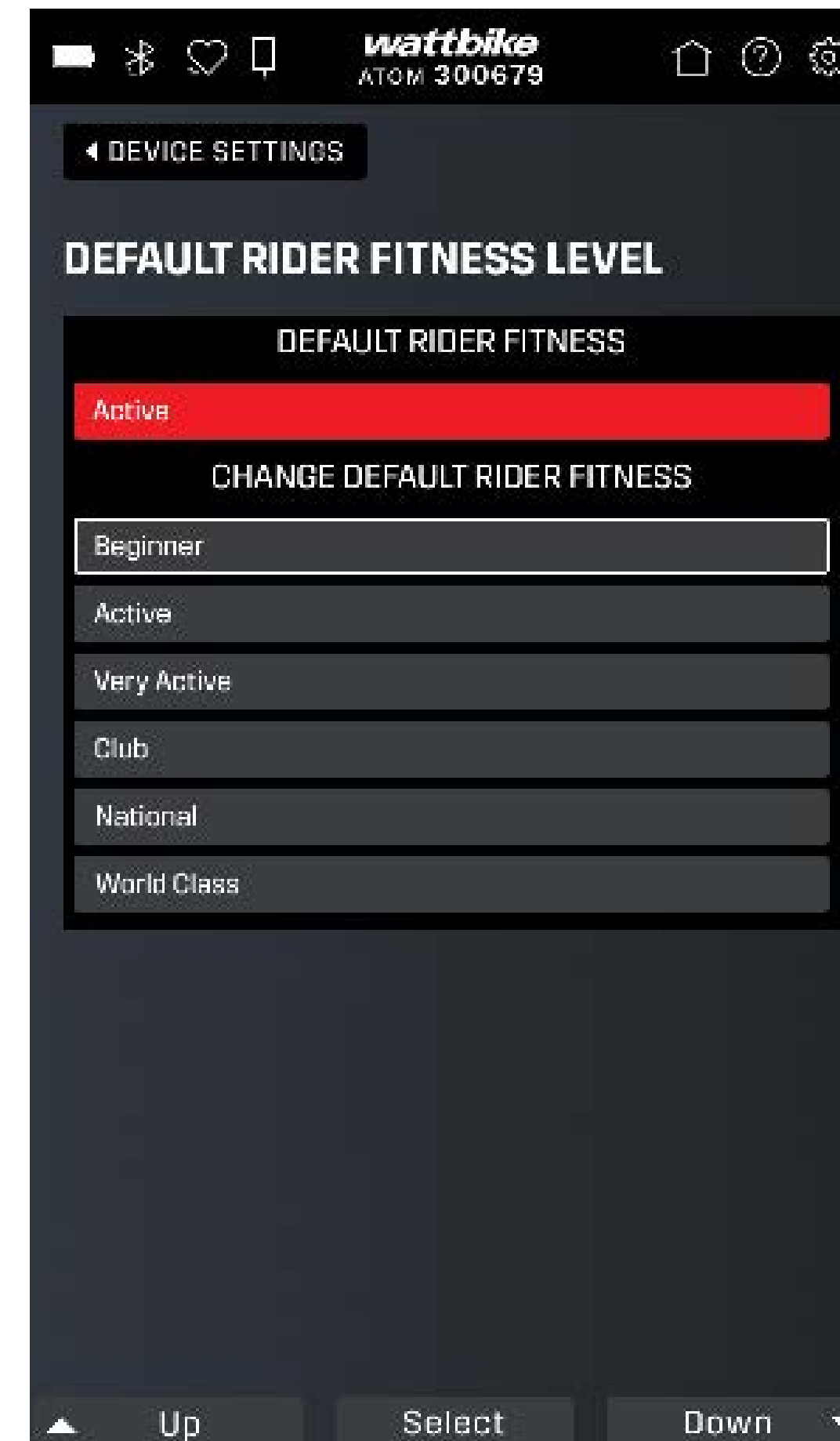


Set the default rider FTP - if a Hub user is not logged in, this value will be used to control the workouts.

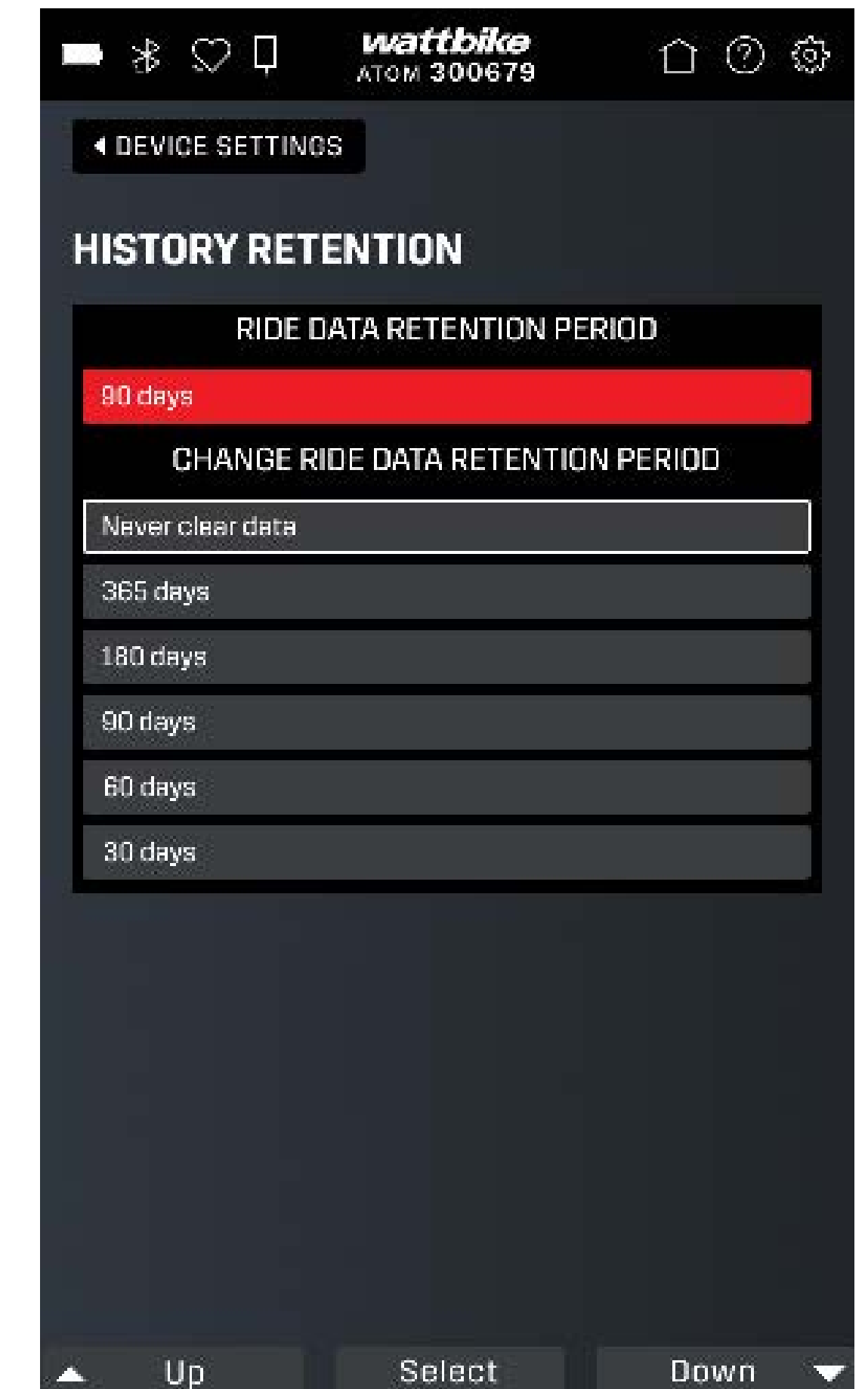
DEFAULT RIDER SEX, DEFAULT RIDER FITNESS, HISTORY RETENTION



Set the default rider sex.



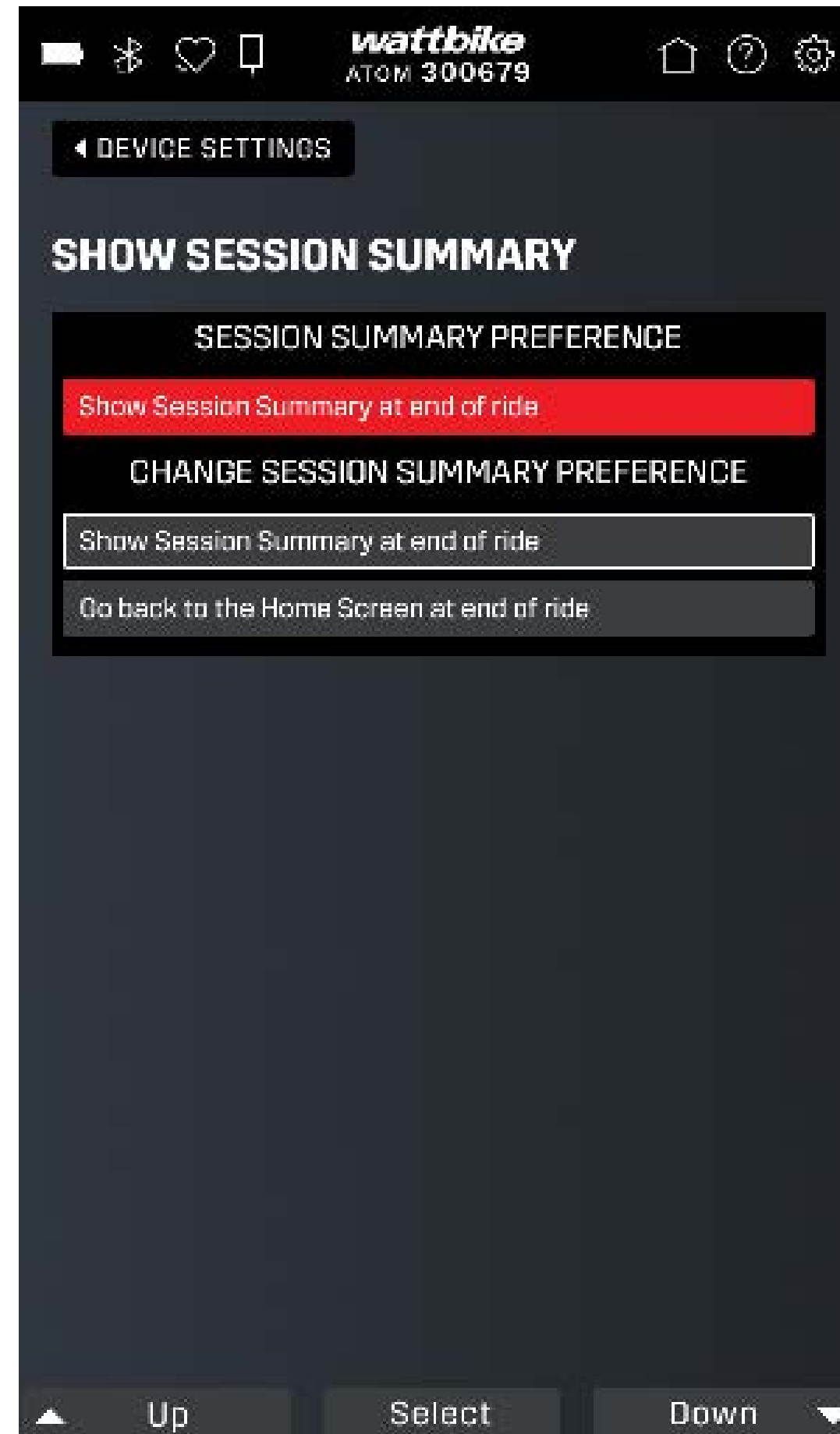
Default rider fitness - amending this will alter the suggestions for starting resistance levels when completing tests.



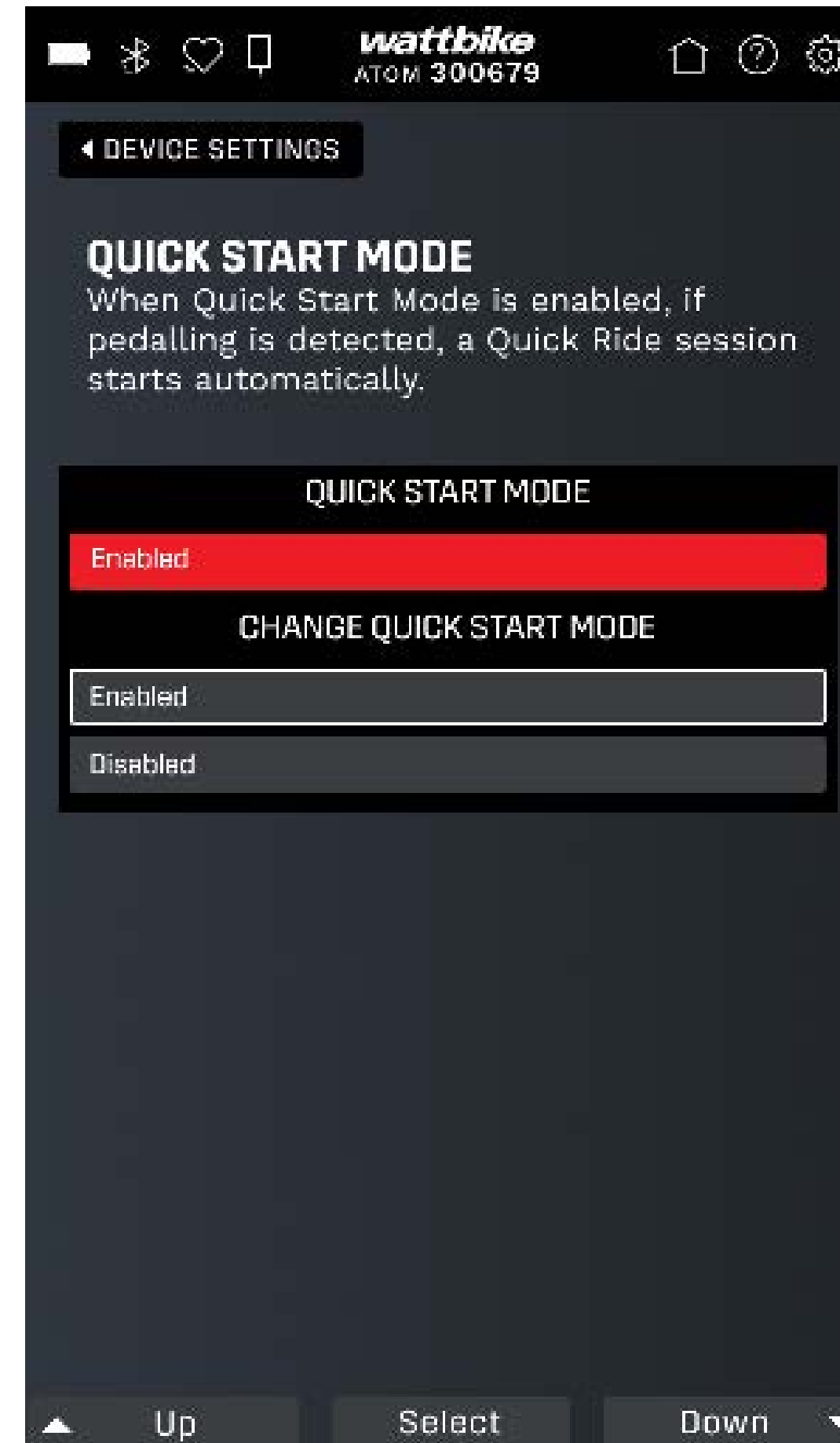
Amend the history retention of completed workouts.

The PTS2 has a large storage capacity and will be able to store a few years of data.

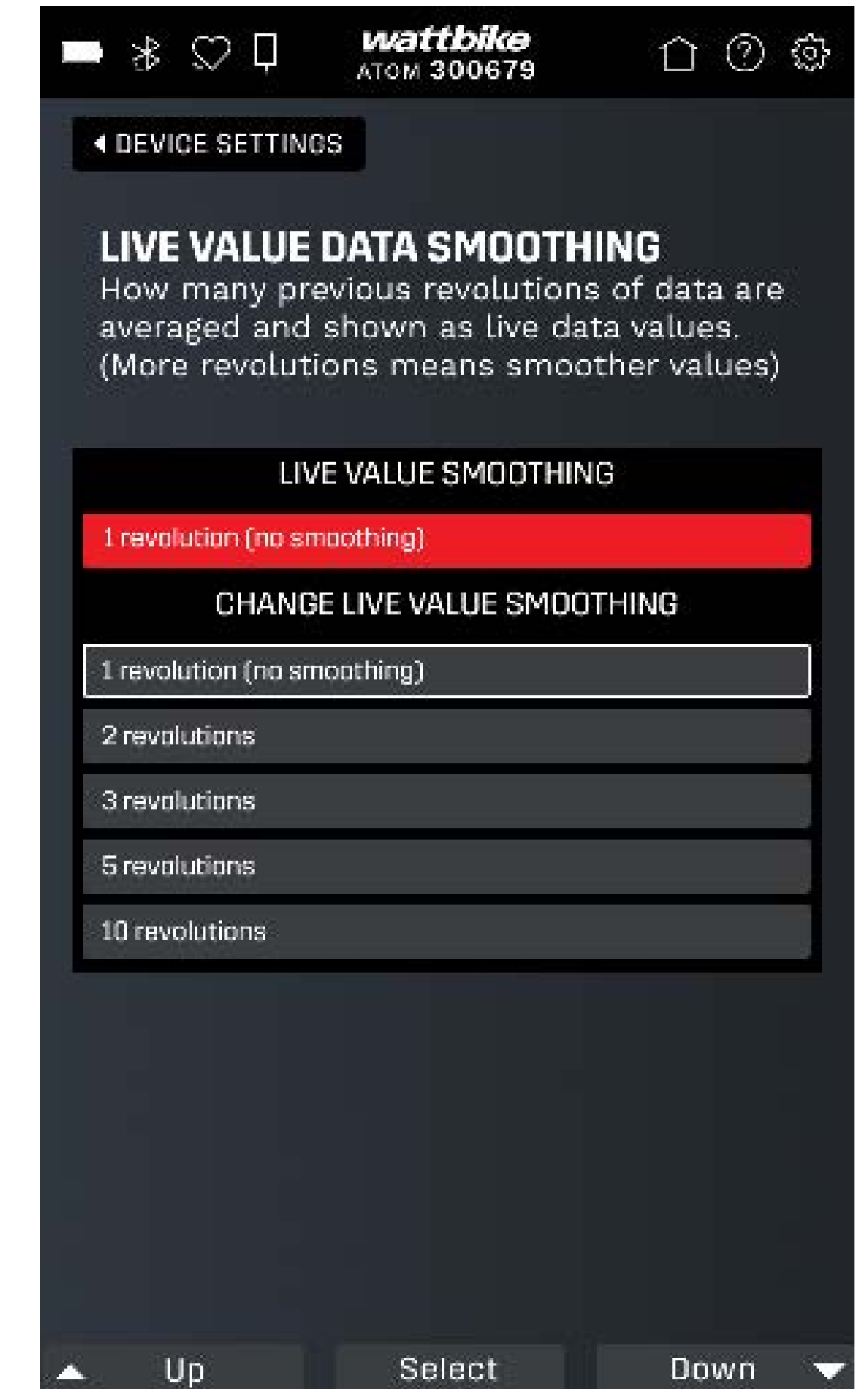
SHOW SESSION SUMMARY, QUICK START MODE, LIVE VALUES REFRESH RATE



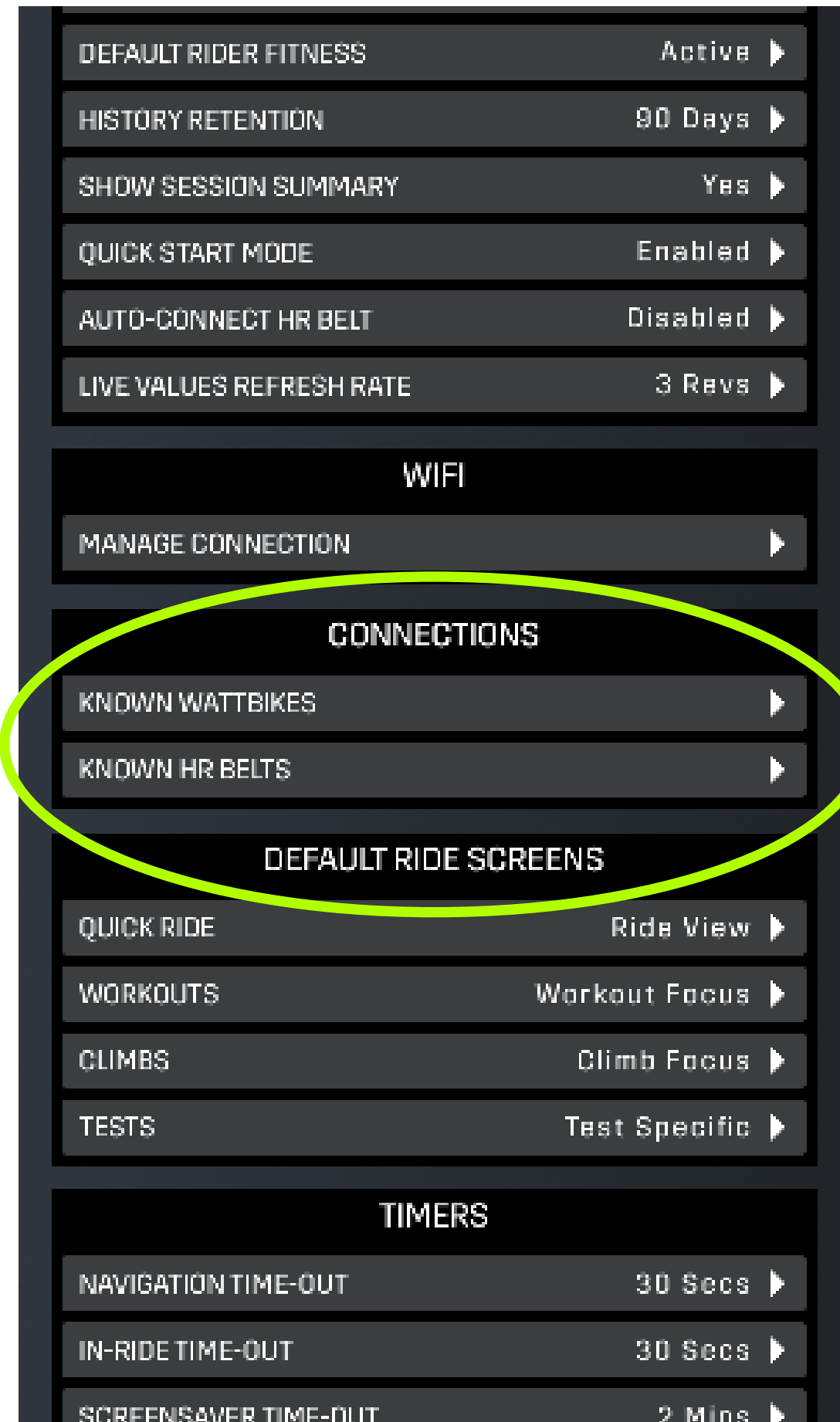
Set if the user will receive a session summary at the end of a workout, if this option is not enabled the summary will still be available in the 'History' section of the PTS2.



Enabling "Quick start mode" will launch the user into a Quick Ride when the PTS2 is turned on if they continue to pedal. If this option is disabled, the user will stay on the Home Screen.



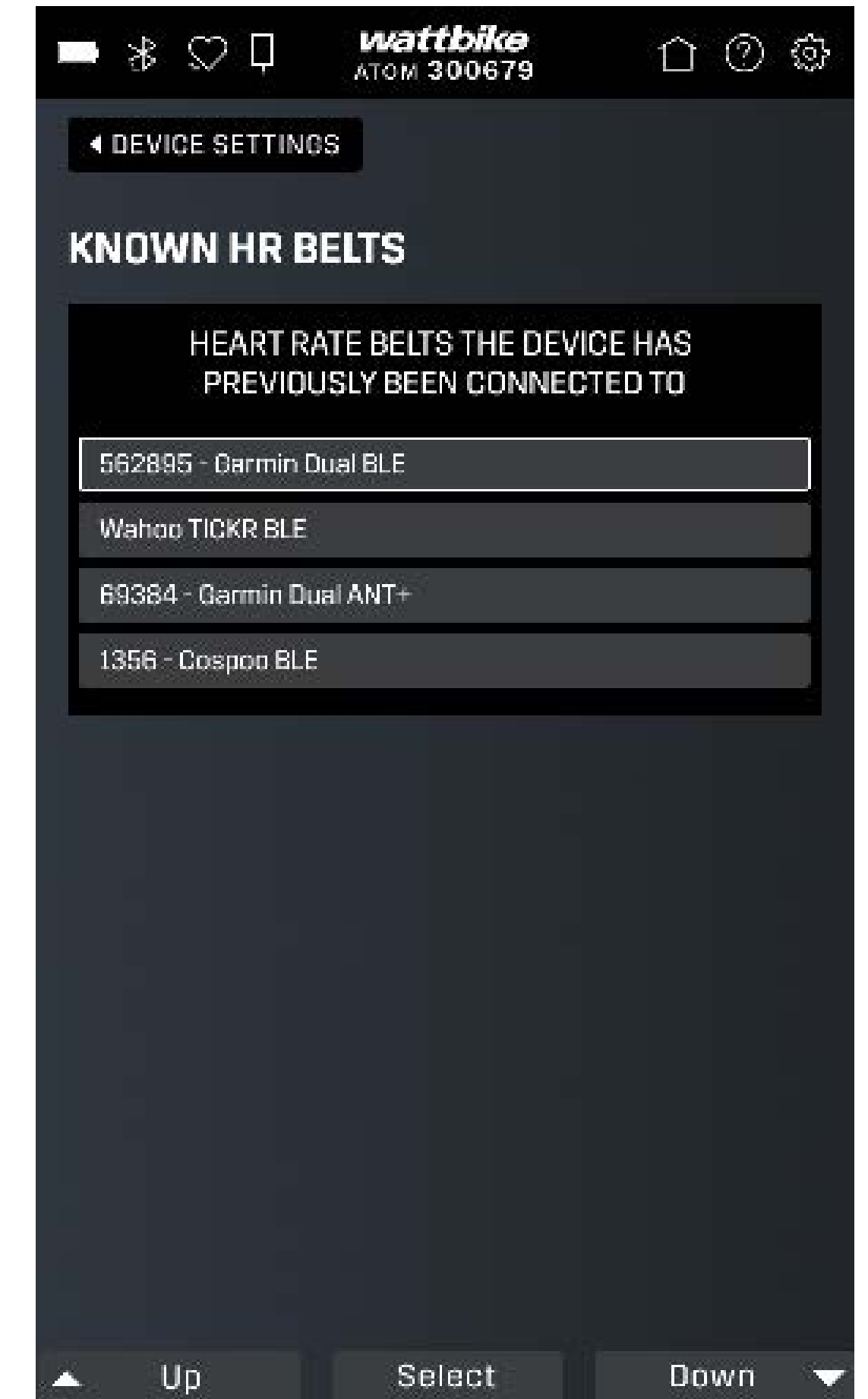
Alter the data smoothing. It is recommended for this to be set to 1 revolution to ensure data is as accurate as possible.



This can be used to see Wattbikes or Heart rate belts the PTS2 has been connected to.



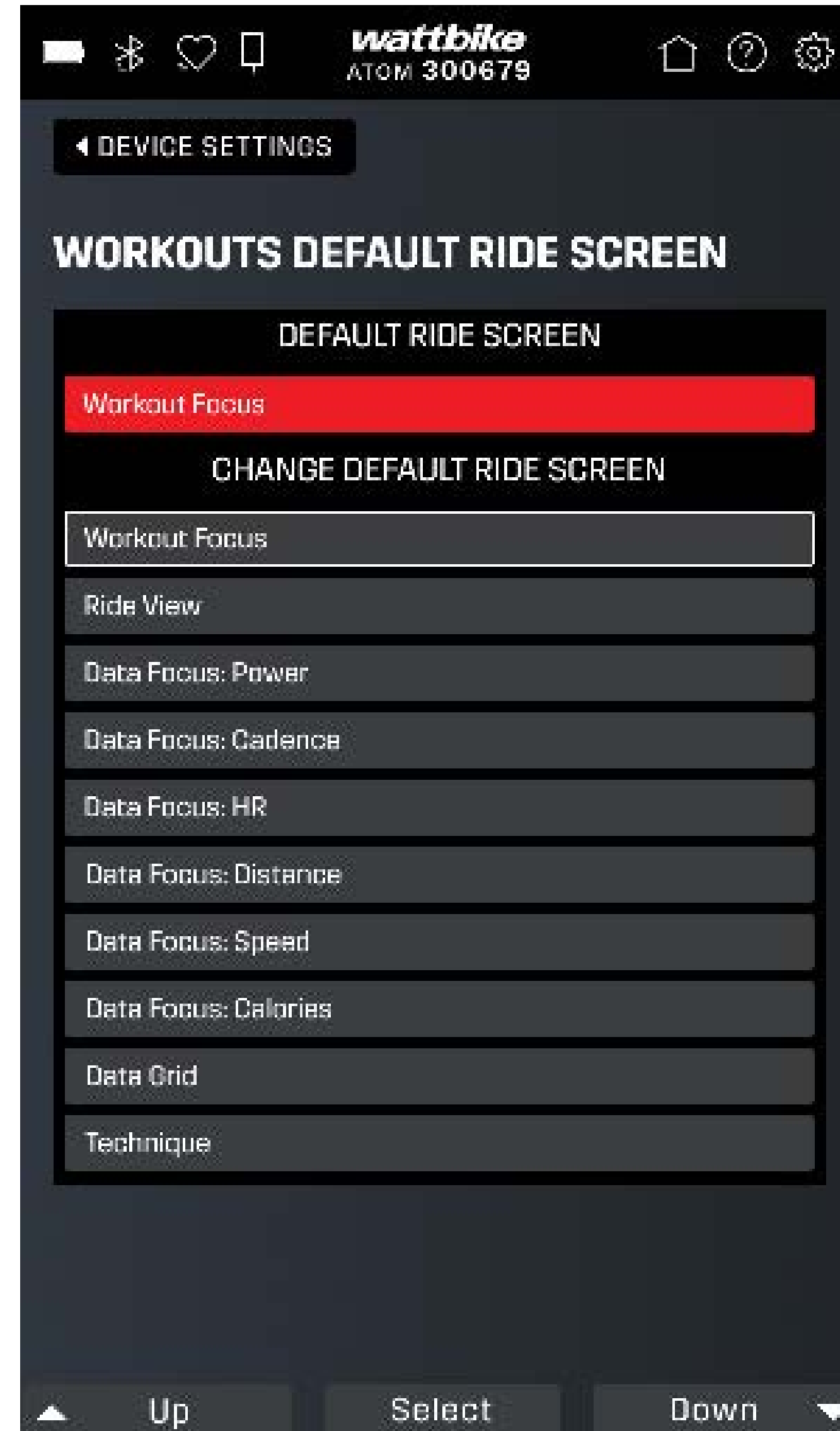
This will show any other Wattbikes the PTS2 has previously been connected to.



This page will show any heart rate belt that has been previously connected to that PTS2.

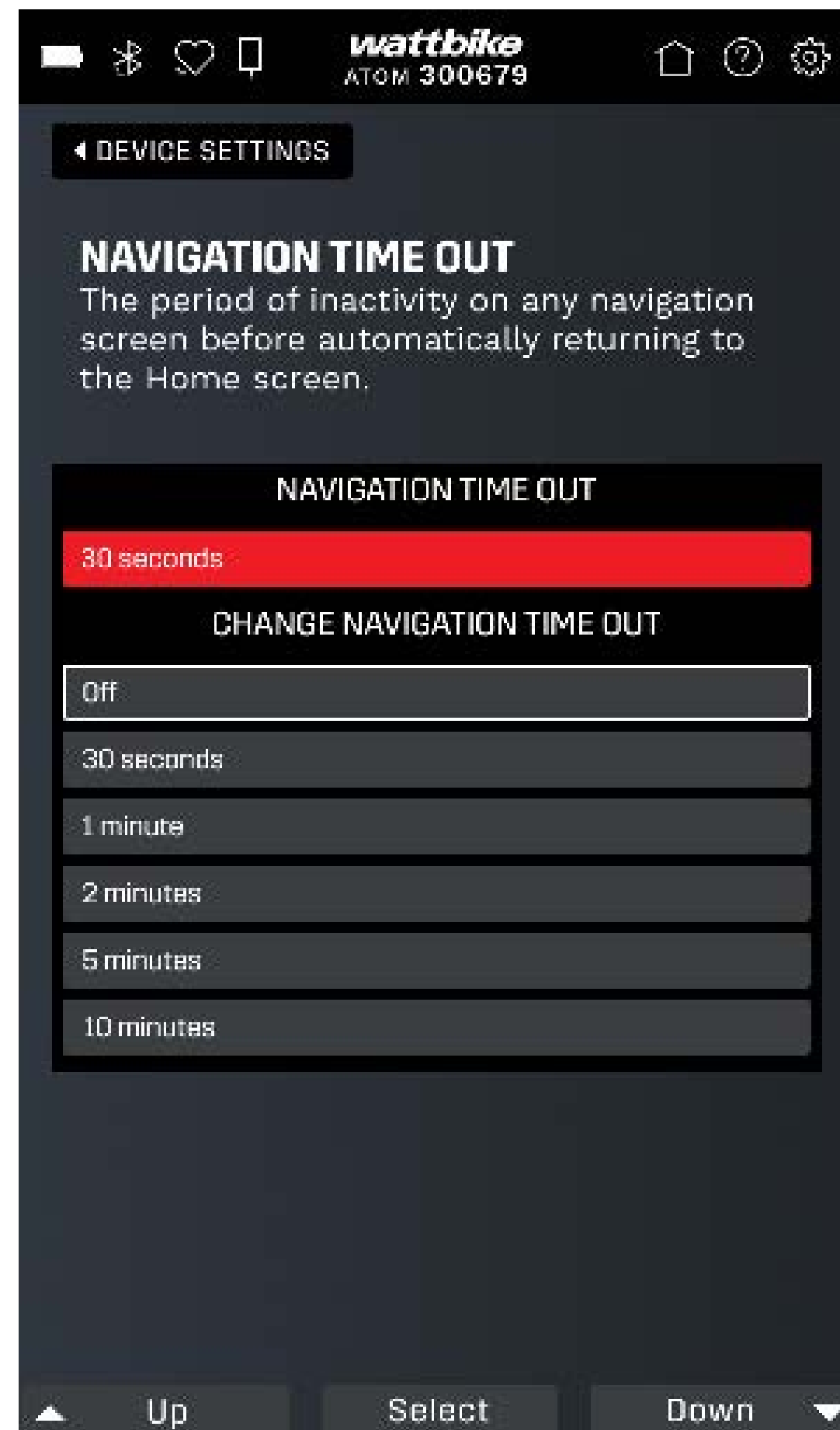
DEFAULT RIDE SCREENS

Visit **Section 2 (page 15 onward)** to decide which is the correct default ride screen for your Wattbike users. The ride screen can still be altered when in a ride.

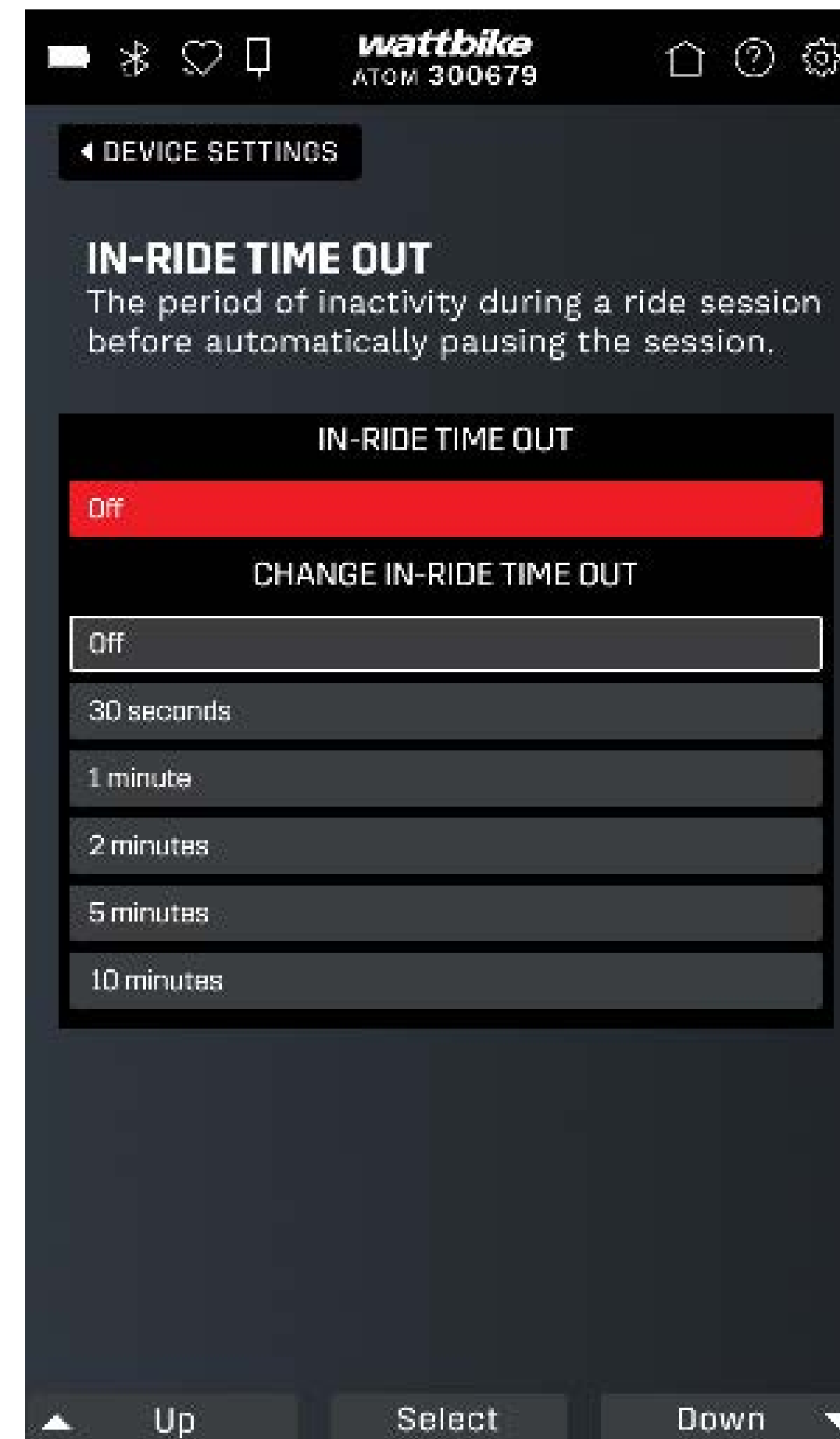


TIMERS

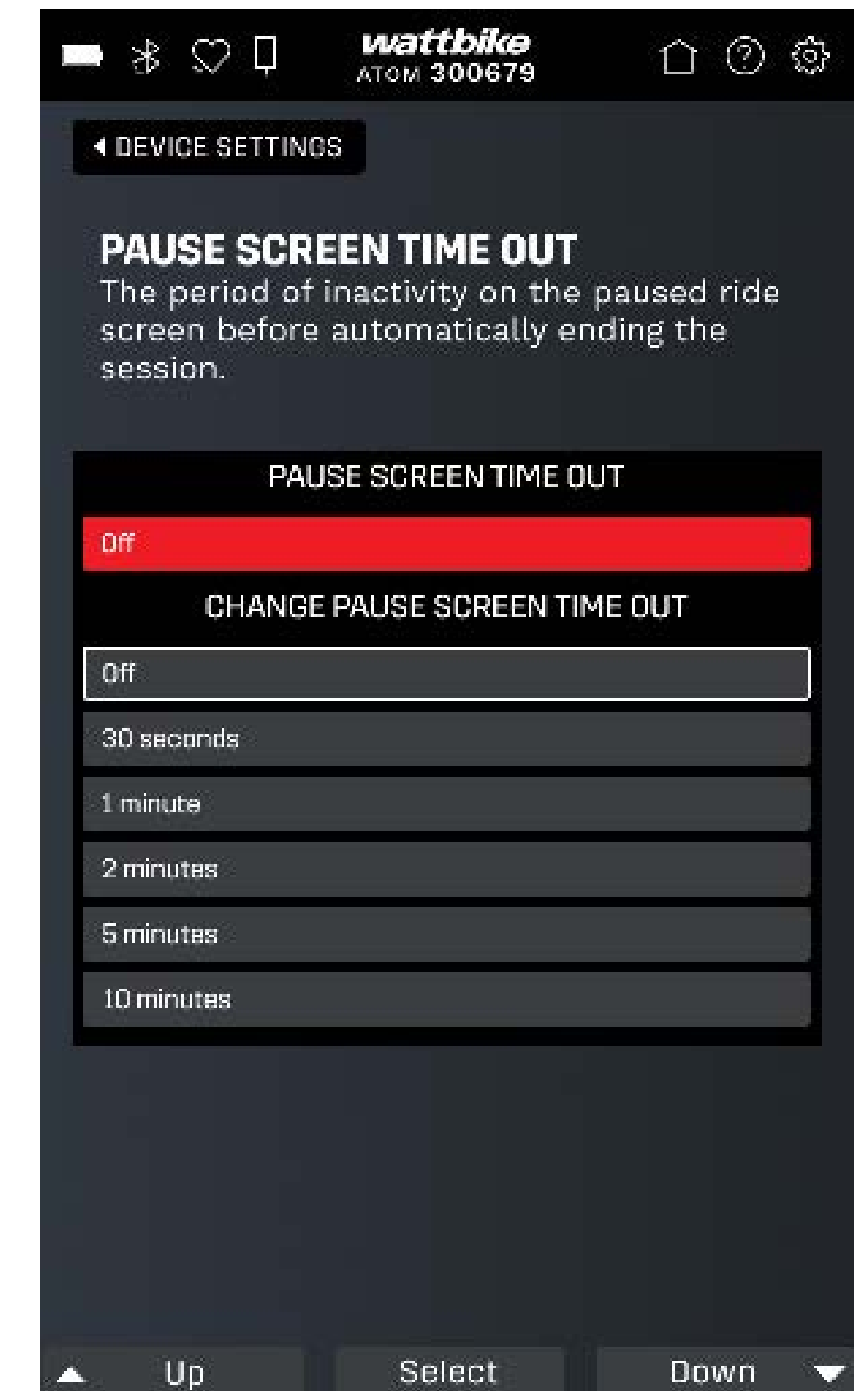
It is important to set the timer settings correctly to not drain the PTS2 battery



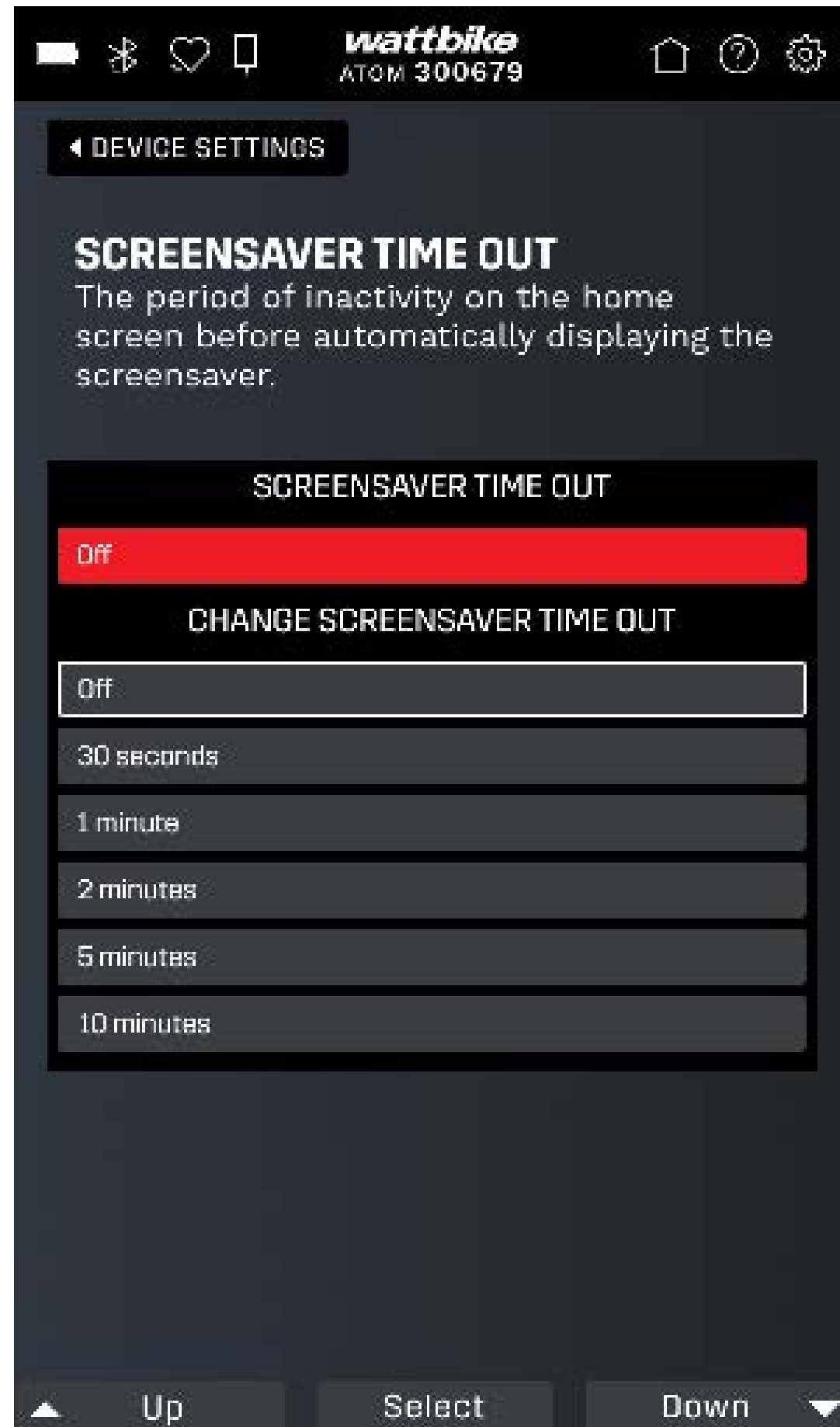
This setting will determine the PTS2 will wait on any menu without activity before returning to the Home Screen.



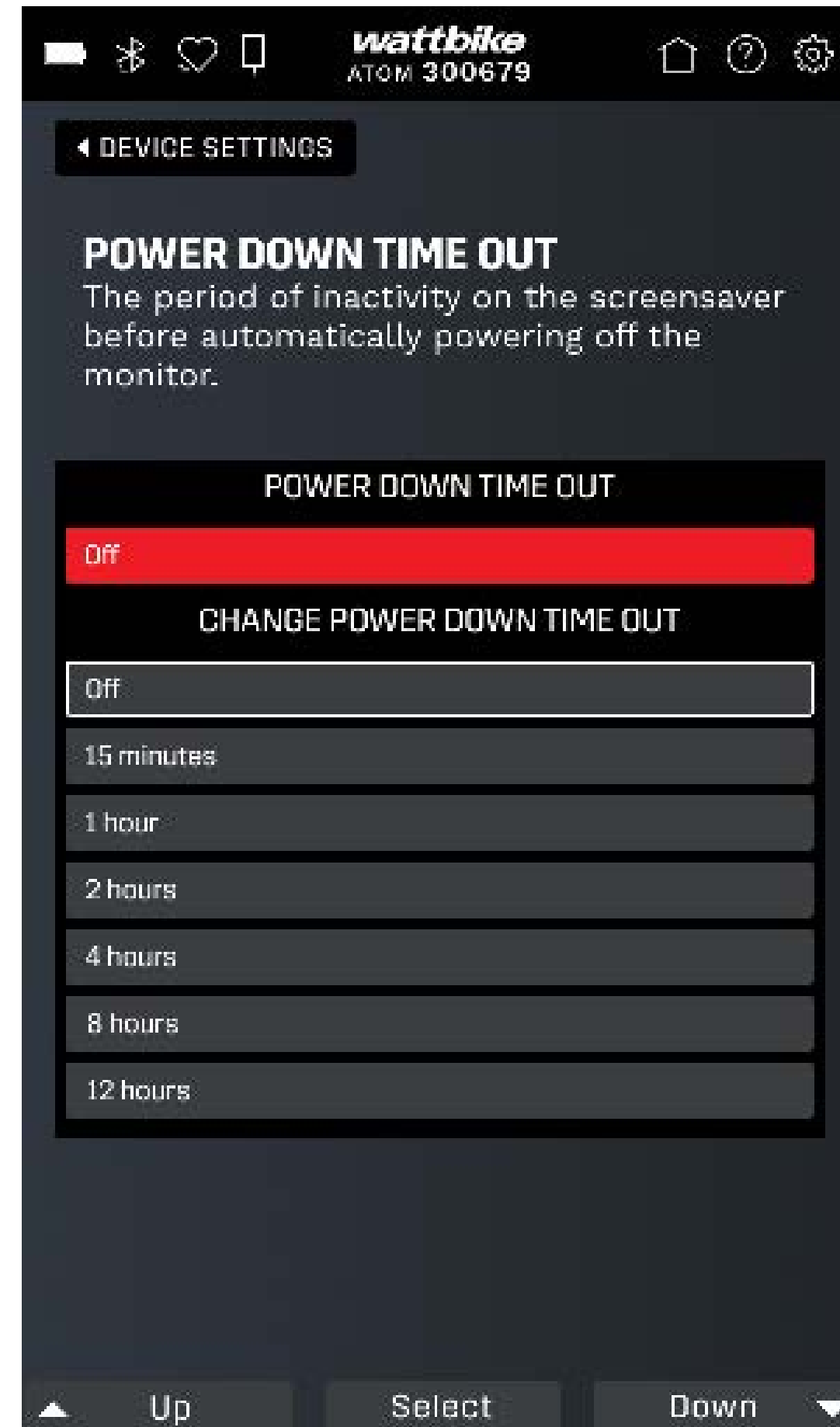
This setting will detect inactivity within a ride, after the pre-determined time, the PTS2 will pause the session.



Following the previous setting, this will alter how long the PTS2 will remain on the pause screen when a session is paused, before returning to the home screen.



This setting will determine how long the PTS2 will wait on the homscreen before showing a screensaver - the screensaver is customisable if required.

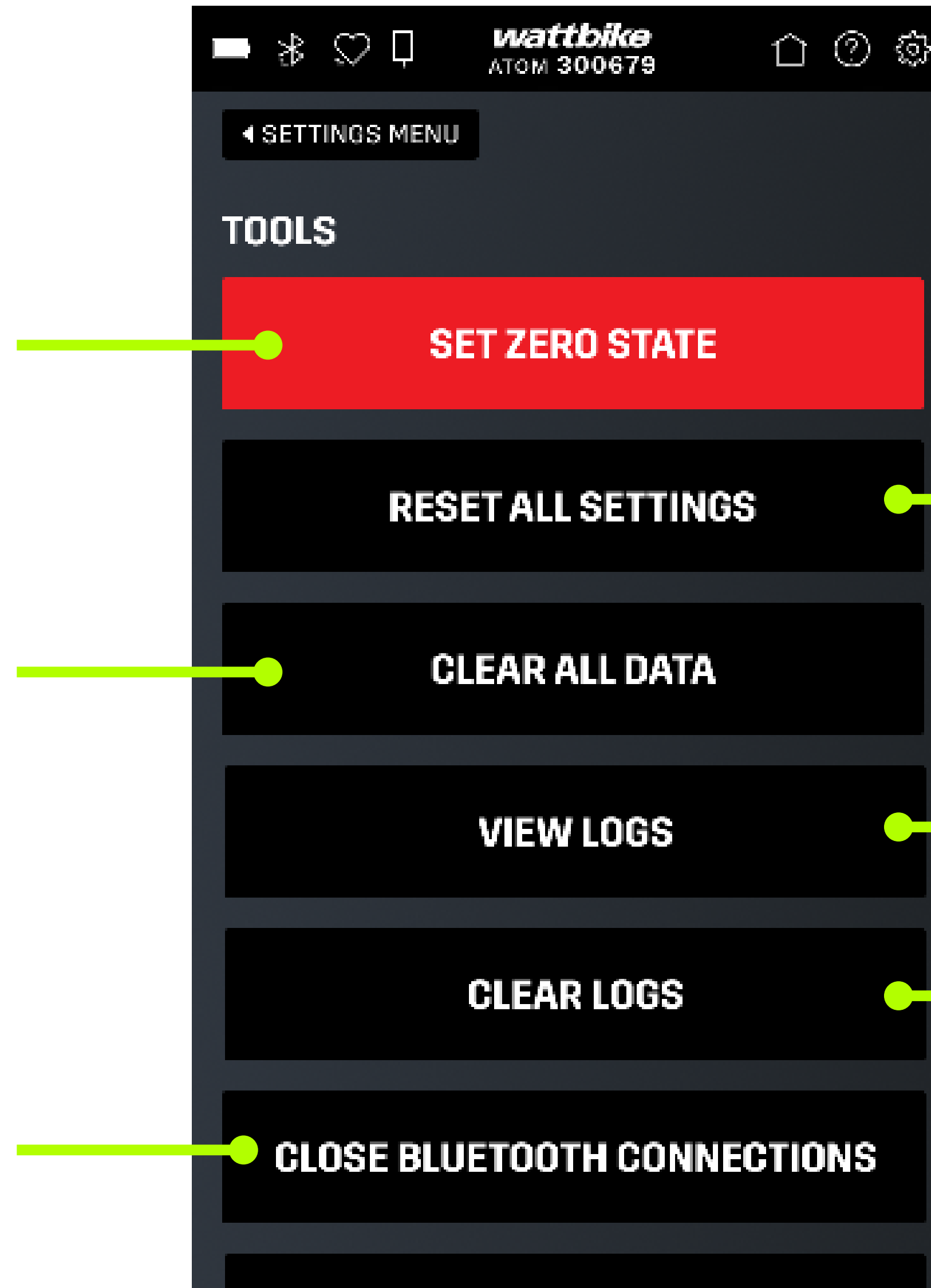


This setting will determine how long before the PTS2 powers off after a period of inactivity.

Set zero state - This should be used to reset the zero value of the strain gauge, ensure there is no force applied to the pedals when this is completed.

Clear all data - this option will wipe all user history from the PTS2.

Close BLE connections - this will disconnect any previous users BLE devices so a new user can be connected.



Reset all settings - this will return the PTS2 to its factory settings

View logs & clear logs - this will show logs related to BLE issues. Note and share the codes if requested by our Technical Support Team.

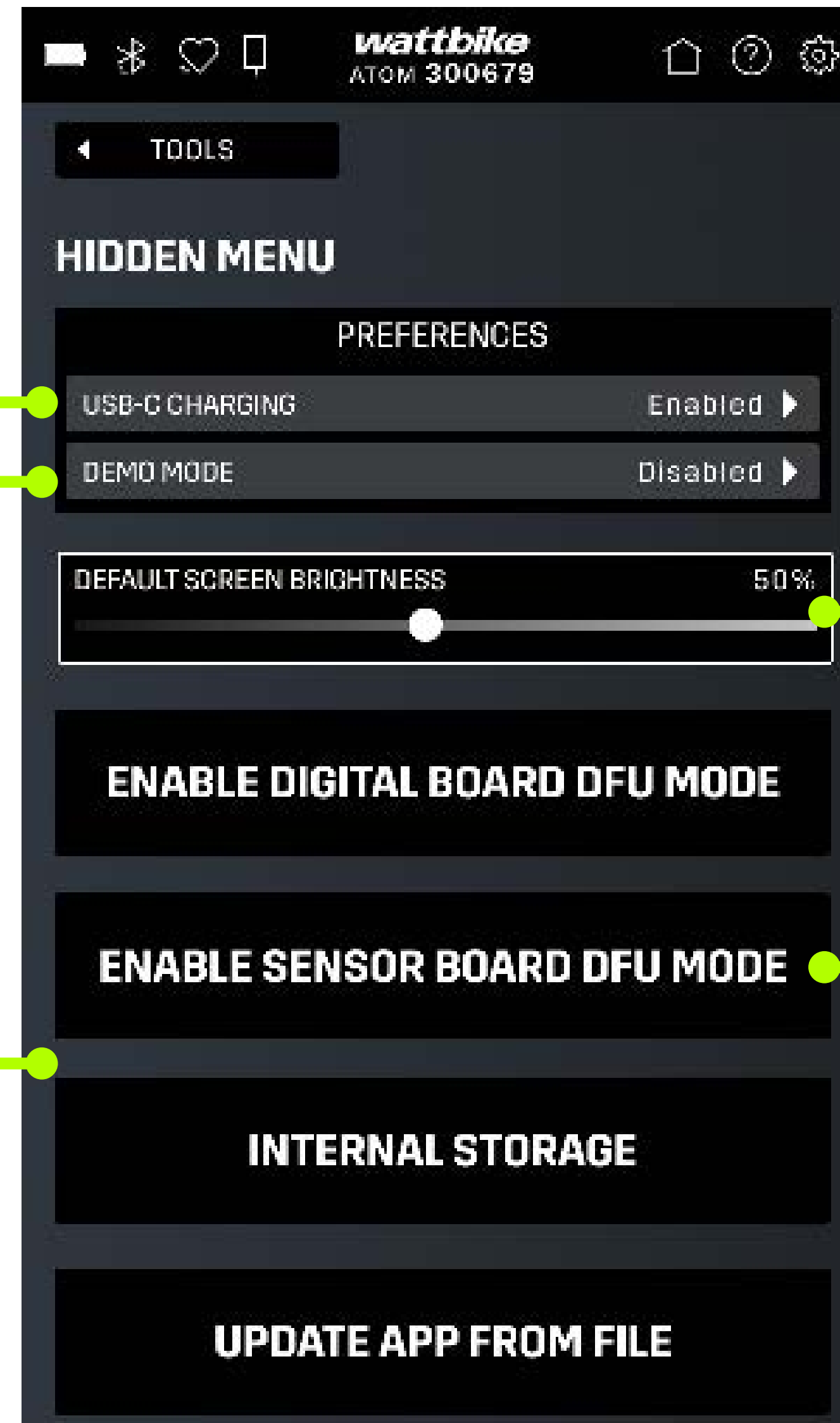
HIDDEN MENU

To access the hidden menu, go into settings > tools and tap 8 times slowly on the word 'tools' at the top of the page.

USB-C Charging - This can be enabled or disabled from the hidden menu - having it enabled may mean the battery will drain faster.

Demo mode - This can be used to demo the product without having to ride it, ensure to disable it before asking users to ride the bike.

Enable Digital board DFU Mode - this function will put the PTS2 into its programming mode to have the firmware updated. For more advice on this process visit the [Wattbike website](https://wattbike.com)



Default screen brightness
This is the default value the screen brightness will reset to when the PTS2 is turned off and on. 40% should be sufficient for most environments.

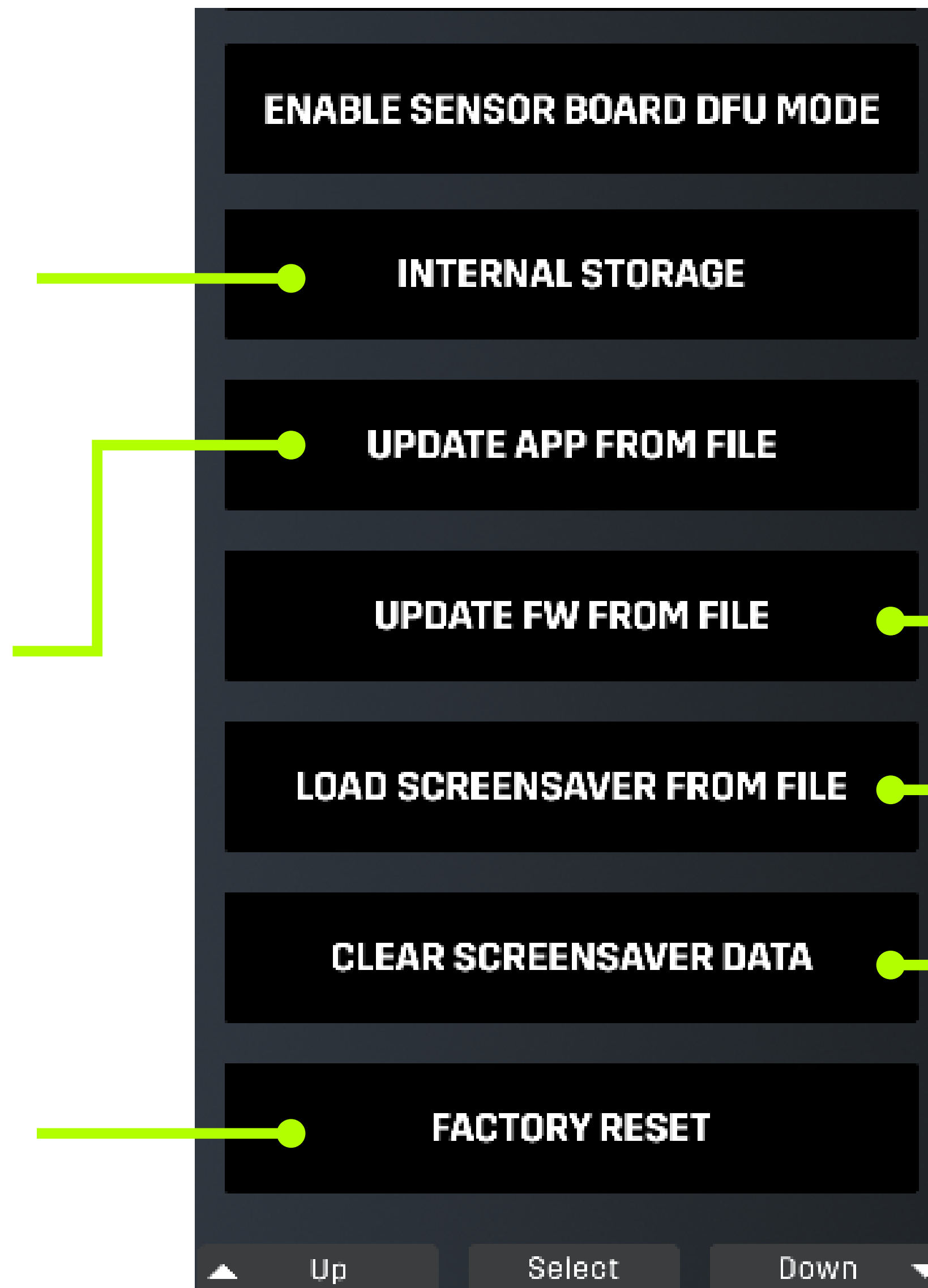
Enable Sensor Board DFU Mode - this function will put the sensor board (inside the bike) into its programming mode. Follow the same guidance from the Digital Board DFU process.

HIDDEN MENU CONTINUED

Internal Storage - This shows the directory of the installed SD card on the PTS2 - it is unlikely this will need to be accessed.

Update App from File - Use this option if an update does not automatically take place when a USB stick is inserted to the PTS2

Factory reset - This will reset the PTS2 back to it's original factory settings. **It will not alter the app or firmware versions in any way.**



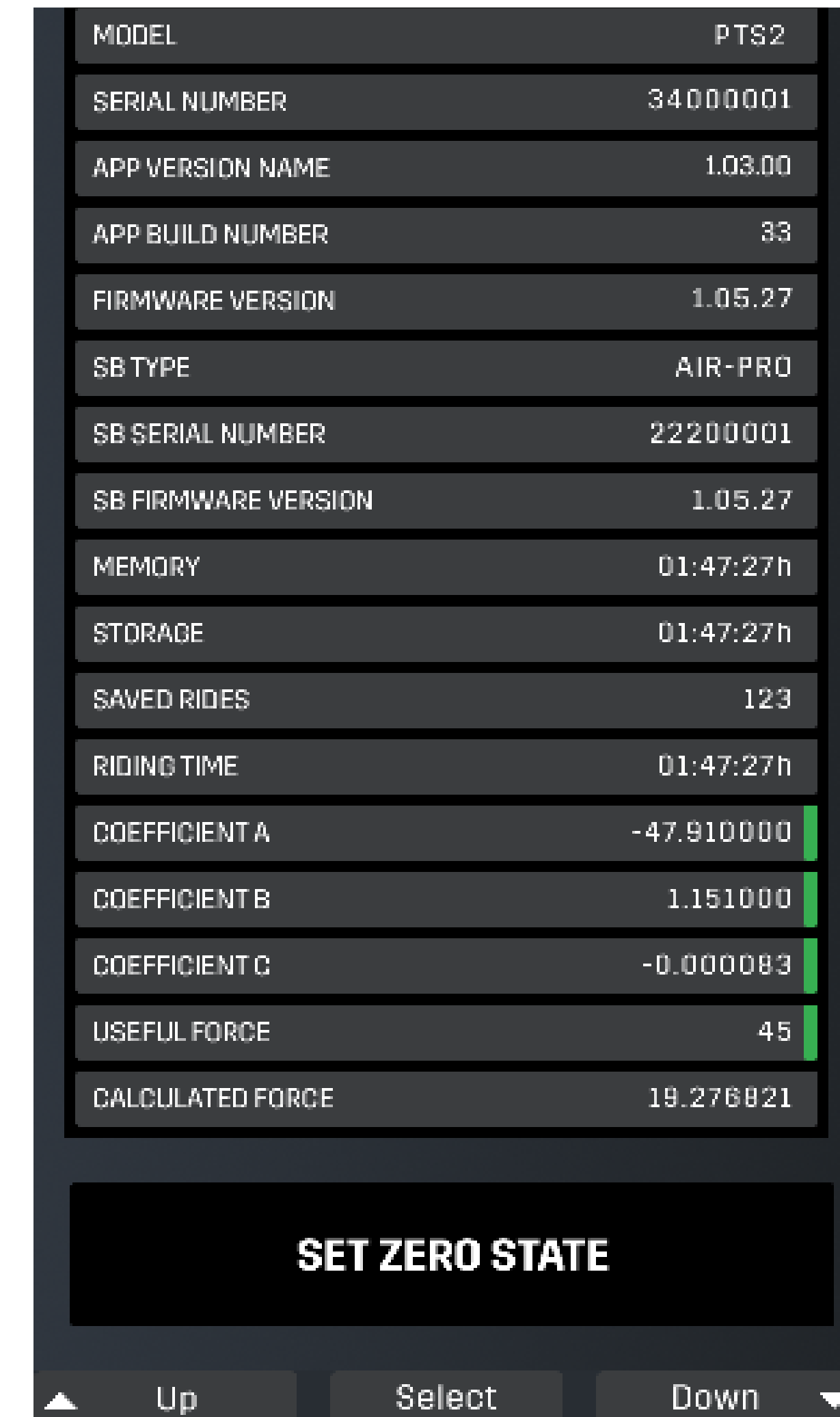
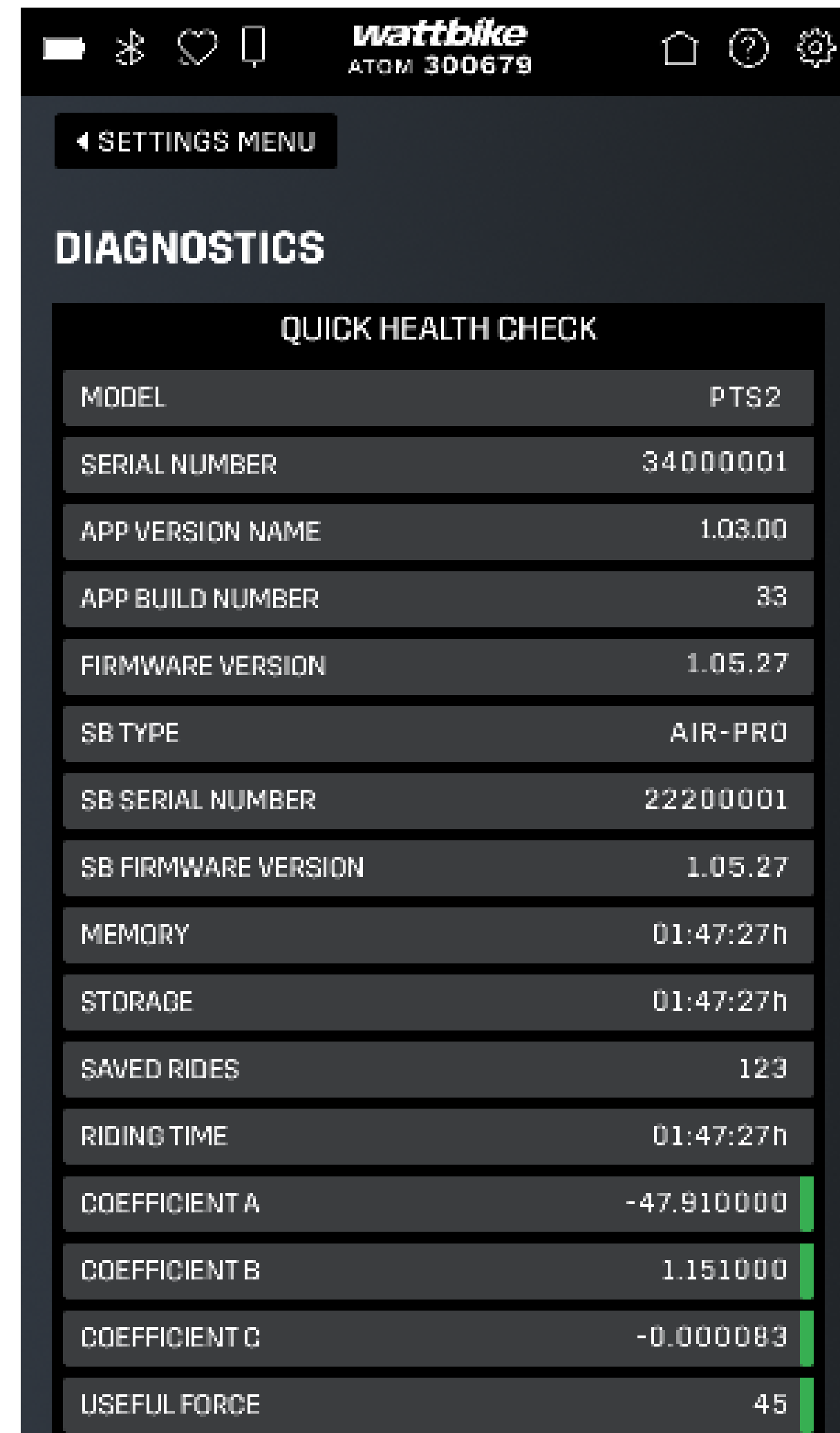
Update FW from File - Use this option if an update does not automatically take place when a USB stick is inserted to the PTS2

Load Screensaver from File - it is possible to program a custom screensaver for your PTS2 - if you would like to do this, contact your Wattbike support and they will assist with this process.

Clear screensaver data - this can be used to return the screensaver to the standard Wattbike screensaver.

DIAGNOSTICS

The diagnostic page gives a snapshot of the important information for both the PTS2 and the bike it is connected to - there will be occasions when you are required to present this information to the Wattbike Support team so that they can assist you with an issue. A “reset zero state” can also be performed from this page.



For further support, contact
your Wattbike representative.