

quatix[™] Owner's Manual



All rights reserved. Under the copyright laws, this manual may not be copied, in whole or in part, without the written consent of Garmin. Garmin reserves the right to change or improve its products and to make changes in the content of this manual without obligation to notify any person or organization of such changes or improvements. Go to www.garmin.com for current updates and supplemental information concerning the use of this product.

Garmin®, the Garmin logo, BlueChart®, and TracBack® are trademarks of Garmin Ltd. or its subsidiaries, registered in the USA and other countries. ANT+ TM , GHC TM , GNT TM , HomePort TM , quatix TM , and tempe TM are trademarks of Garmin Ltd. or its subsidiaries. These trademarks may not be used without the express permission of Garmin.

The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Garmin is under license. Mac® is a registered trademark of Apple Computer, Inc. Windows® is a registered trademark of Microsoft Corporation in the United States and other countries. NMEA 2000® and the NMEA 2000 logo are trademarks of the National Marine Electronics Association. Other trademarks and trade names are those of their respective owners.

Table of Contents

Getting Started	
Keys	
Charging the Device	
Profiles	
Changing Profiles	
Creating a Custom Profile	
Deleting a Profile	
Sensors and GPS Data	
Viewing the Data Pages	
Turning On a Sensor Mode	2
Compass	
Altimeter and Barometer	
Changing the Plot Type	2
Calibrating the Barometric Altimeter	
Acquiring Satellites	2
Stopping GPS	
Navigation	
Navigation Navigation Navigating to a Destination	
Stopping Navigation	
Waypoints	
Creating a Waypoint	
Finding a Waypoint by Name	3
Navigating to a Waypoint	
Editing a Waypoint	
Increasing the Accuracy of a Waypoint Location	
Projecting a Waypoint	
Deleting a Waypoint	
Deleting All Waypoints	
Routes	
Creating a Route	
Editing the Name of a Route	
Editing a Route	
Viewing a Route on the Map	4
Deleting a Route	4
Reversing a Route	
Tracks	
Acquiring Satellite Signals and Recording a Track	4
Saving the Current Track	4
Viewing Details about the Track	4
Clearing the Current Track	4
Deleting a Track	4
Sending Data to HomePort™	4
Sending and Receiving Data Wirelessly	4
Map	
Browsing the Map	
Navigating Using TracBack®	
Marking and Starting Navigation to a Man Overboard	
Location	5
Applications	
• •	
Sail Racing	
Setting the Race Timer	
Sail Racing with the Race Timer	
Setting the Start Line	
Sail Racing Using the Start Line	
Tack Assist	
Lifted	
Headed	
Configuring Tack Assist Settings	7
Calibrating the Tack Assist	
Calibrating the Tack Assist Manually	
Viewing Tide Information	
Pairing With an Autopilot	
Using Autopilot	8

Clock	
Setting the Alarm	
Starting the Countdown Timer	
Using the Stopwatch	8
Adding a Custom Time Zone	
Editing a Custom Time Zone	. 8
Alerts	8
Setting a Proximity Alarm	8
Navigating with Sight 'N Go	8
Calculating the Size of an Area	
Viewing the Almanacs	
Viewing Satellite Information	
Simulating a Location	
3	
ANT+™ Sensors	
Pairing ANT+ Sensors	9
Tips for Pairing ANT+ Accessories with Your Garmin	
Device	
Streaming NMEA 2000 Data	
Using Automatic Man Overboard	
tempe1	
Putting On the Heart Rate Monitor1	10
Customizing Your Device1	ın
Setup Overview	
System Settings	
Customizing the Data Pages	
Compass Settings	
Setting the North Reference	
Altimeter Settings	
Setting the Device Tones	
Display Settings1	
Map Settings	
Track Settings1	
Time Settings1	
Changing the Units of Measure1	
Position Format Settings1	
Customizing the Main Menu	11
Device Information1	11
Viewing Device Information	
Updating the Software	
Device Care	
	12
Specifications 1	
Battery Information	
Data Management	
File Types	
Deleting Files	
Disconnecting the USB Cable	
Data Fields1	12
NMEA 2000 Data Fields	
Data Pages1	
Troubleshooting1	
Locking the Keys	
Resetting Your Device	
Resetting the Device to Factory Settings	
Clearing All Sensor Plot Data	
Appendix1	
Registering Your Device	
Getting More Information	
Software License Agreement	
Index1	6

Getting Started

When using your device the first time, you should complete these tasks to set up the device and get to know the basic features.

- 1 Charge the device (page 1).
- 2 Learn about profiles and sensor data (page 2).
- 3 Acquire satellites and record your track (page 2).
- 4 Mark and navigate to a waypoint (page 3).
- 5 Learn about applications (page 5).
- 6 Stream data from your NMEA 2000® network (page 9).
- 7 Register the device (page 15).

Keys



1	\bigcirc	Select to turn the backlight on and off. Hold to turn the device on and off.
2		Select to scroll through the data pages, options, and settings.
3	∇	Select to scroll through the data pages, options, and settings.
4	\rightarrow	Select to return to the previous screen. Hold to view the status page.
5	Blue key	Select to open the menu for the current screen. Select to choose an option and to acknowledge a message. Hold to mark a waypoint.

Charging the Device

NOTICE

To prevent corrosion, thoroughly dry the contacts and the surrounding area before charging or connecting to a computer.

The device is powered by a built-in lithium-ion battery that you can charge using a standard wall outlet or a USB port on your computer.

- 1 Plug the USB end of the cable into the AC adapter or a computer USB port.
- 2 Plug the AC adapter into a standard wall outlet.
- **3** Align the left side of the charging cradle ① with the groove on the left side of the device.



4 Align the hinged side of the charger ② with the contacts on the back of the device.

When you connect the device to a power source, the device turns on.

5 Charge the device completely.

Profiles

Profiles are a collection of settings that optimize your device based on how you are using it. For example, the settings and views are different when you are using the device when sailing than when powerboating.

When you are using a profile and you change settings such as data fields or units of measurement, the changes are saved automatically as part of the profile.

Changing Profiles

When you change activities, you can quickly change the setup of the device to suit the activity by changing the profile.

- 1 Select the blue key.
- 2 Select Profiles.
- 3 Select a profile.

The profile you selected is now the active profile. Any changes you make are saved to the active profile.

Creating a Custom Profile

You can customize your settings and data fields for a particular activity or trip.

- Select the blue key.
- 2 Select Setup > Profiles.
- 3 Select an option:
 - · Select a profile.
 - Select Create New, and select the new profile.

The profile you selected is now the active profile. The previous profile was saved.

- 4 If necessary, select Edit, and edit the name of the profile.
- 5 Customize your settings (page 10) and data fields for the active profile.

Any changes you make are saved to the active profile.

Deleting a Profile

- Select the blue key.
- 2 Select Setup > Profiles.
- Select a profile.
- 4 Select Delete > Yes.

Getting Started 1

Sensors and GPS Data

Viewing the Data Pages

Customizable data pages allow you to quickly access real-time data for the compass, barometer, and temperature sensors. When you begin tracking or navigating, additional data pages appear.

Data pages can also show data streamed from your NMEA 2000 network through a Garmin[®] GNT™.

From the time of day page, select \triangle or ∇ to cycle through the data pages.

NOTE: Sensor data is not recorded to the device.

Data Page Flows

By default, the time, compass, barometer, and temperature pages appear in all data page flows. The organization and appearance of other data pages depends on these conditions.

- · The active profile.
- Whether you are tracking, navigating, or viewing only sensor data
- Whether you are streaming NMEA 2000 data through a Garmin GNT.

The data fields on each page can be customized. Some data fields are available only when streaming NMEA 2000 data (page 14).

Turning On a Sensor Mode

The default sensor mode is on demand mode, which offers you quick access to compass, altimeter, barometer, or temperature data. You can also put the device in always on mode to display continuous sensor data.

- 1 Select the blue key.
- 2 Select Setup > Sensors > Mode > Always On.

Compass

The device has a 3-axis compass with automatic calibration.

- · Compass navigation (page 3)
- Compass settings (page 10)

Calibrating the Compass

NOTICE

Calibrate the electronic compass outdoors. To improve heading accuracy, do not stand near objects that influence magnetic fields, such as vehicles, buildings, and overhead power lines.

Your device was already calibrated at the factory, and the device uses automatic calibration by default. If you experience irregular compass behavior, for example, after moving long distances or after extreme temperature changes, you can manually calibrate the compass.

- **1** Select the blue key.
- 2 Select Setup > Sensors > Compass > Calibrate > Start.
- 3 Follow the on-screen instructions.

Altimeter and Barometer

The device contains an internal altimeter and barometer.

- On Demand sensor data (page 2)
- Always On sensor data (page 2)
- Altimeter settings (page 11)

Changing the Plot Type

You can change the way the device plots barometer and elevation data.

- **1** Select the blue key.
- 2 Select Setup > Sensors > Altimeter.
- 3 Select Baro. Plot or Elev. Plot.

4 Select an option.

Calibrating the Barometric Altimeter

Your device was already calibrated at the factory, and the device uses automatic calibration by default. You can manually calibrate the barometric altimeter if you know the correct elevation or the correct barometric pressure.

- Select the blue key.
- 2 Select Setup > Sensors > Altimeter > Calibrate.
- 3 Follow the on-screen instructions.

Acquiring Satellites

Before you can use the GPS navigation features, such as recording a track, you must acquire satellite signals.

The device may need a clear view of the sky to acquire satellite signals. The time and date are set automatically based on the GPS position. To adjust the time settings, see page 8.

For more information about GPS, go to www.garmin.com /aboutGPS.

- 1 Select the blue key.
- 2 Select Start GPS.
- 3 Wait while the device locates satellites.

Stopping GPS

- 1 Select the blue key.
- 2 Select Stop GPS.

Navigation

You can navigate to a route, track, waypoint, geocache, or any saved location in the device. You can use the map or the compass to navigate to your destination.

Navigating to a Destination

You can navigate to a destination using the compass or map (page 5).

- 1 Select the blue key.
- 2 Select Start GPS.
- 3 Wait while the device locates satellites.
- 4 Select the blue key.
- 5 Select an option:
 - Select Waypoints.
 - Select Tracks.
 - · Select Routes.
 - Select GPS Tools > Coordinates.
 - · Select GPS Tools > POIs.
- 6 Select a destination.
- 7 Select Go.



The device displays time to destination ①, distance to destination ②, and estimated time of arrival ③.

8 Select ∇ to view the compass page.

2 Navigation



The two pointer marks @ serve as a bearing pointer. The top blue mark ⑤ points in the direction you are facing.

- 9 Align the pointer marks with the top blue mark.
- 10 Continue to travel in that direction until you reach the destination.

Stopping Navigation

- 1 Select the blue key.
- 2 Select Stop Nav..

Waypoints

Waypoints are locations you record and store in the device.

Creating a Waypoint

You can save your current location as a waypoint.

- **1** Hold the blue key.
- 2 Select an option:
 - · To save the waypoint without changes, select Save.
 - To make changes to the waypoint, select Edit, make changes to the waypoint, and select Save.

Finding a Waypoint by Name

- 1 Select the blue key.
- 2 Select Waypoints > Spell Search.
- **3** Use the blue key, \triangle , and ∇ to enter characters.
- 4 When finished, select _ > Done.

Navigating to a Waypoint

- **1** Select the blue key.
- 2 Select Start GPS.
- 3 Wait while the device locates satellites.
- 4 Select the blue key.
- **5** Select **Waypoints**, and select a waypoint from the list.
- 6 Select Go.



The device displays time to destination ①, distance to destination ②, and estimated time of arrival ③.

7 Select ∇ to view the compass page.



The two pointer marks 4 serve as a bearing pointer. The top blue mark 5 points in the direction you are facing.

- 8 Align the pointer marks with the top blue mark.
- 9 Continue to travel in that direction until you reach the destination.

Editing a Waypoint

Before you can edit a waypoint, you must create a waypoint.

- 1 Select the blue key.
- 2 Select Waypoints.
- 3 Select a waypoint.
- 4 Select Edit.
- 5 Select an item to edit, such as the name.
- **6** Use the blue key, \triangle , and ∇ to enter characters.
- 7 When finished, select _ > Done.

Increasing the Accuracy of a Waypoint Location

You can refine a waypoint location for more accuracy. When averaging, the device takes several readings at the same location and uses the average value to provide more accuracy.

- 1 Select the blue key.
- 2 Select Waypoints
- 3 Select a waypoint.
- 4 Select Average.
- **5** Move to the waypoint location.
- 6 Select Start.
- 7 Follow the on-screen instructions.
- 8 When the confidence reaches 100%, select Save.

For best results, collect four to eight samples for the waypoint, waiting at least 90 minutes between samples.

Projecting a Waypoint

You can create a new location by projecting the distance and bearing from a marked location to a new location.

- Select the blue key.
- 2 Select Waypoints.
- Select a waypoint.
- 4 Select Project.
- **5** Follow the on-screen instructions.

The projected waypoint is saved with a default name.

Deleting a Waypoint

- 1 Select the blue key.
- 2 Select Waypoints.
- 3 Select a waypoint.
- 4 Select Delete > Yes.

Deleting All Waypoints

- 1 Select the blue key.
- 2 Select Setup > Reset > Waypoints > Yes.

Navigation 3

Routes

A route is a sequence of waypoints or locations that leads you to your final destination.

Creating a Route

- 1 Select the blue key.
- 2 Select Routes > Create New.
- 3 Select First Point.
- 4 Select a category.
- 5 Select the first point on the route.
- 6 Select Next Point.
- 7 Repeat steps 4–6 until the route is complete.
- 8 Select Done to save the route.

Editing the Name of a Route

- 1 Select the blue key.
- 2 Select Routes.
- 3 Select a route.
- 4 Select Rename.
- **5** Use the blue key, \wedge , and ∇ to enter characters.
- 6 When finished, select > Done.

Editing a Route

- 1 Select the blue key.
- 2 Select Routes.
- 3 Select a route.
- 4 Select Edit.
- 5 Select a point.
- 6 Select an option:
 - To view the point on the map, select Map.
 - To change the order of the point on the route, select Move Up or Move Down.
 - To insert an additional point on the route, select Insert.
 The additional point is inserted before the point you are editing.
 - To add a point to the end of the route, select Next Point.
 - To remove the point from the route, select Remove.

Viewing a Route on the Map

- **1** Select the blue key.
- 2 Select Routes.
- 3 Select a route.
- 4 Select View Map.

Deleting a Route

- **1** Select the blue key.
- 2 Select Routes.
- 3 Select a route.
- 4 Select Delete > Yes.

Reversing a Route

- Select the blue key.
- 2 Select Routes.
- 3 Select a route.
- 4 Select Reverse.

Tracks

A track is a recording of your path. The track log contains information about points along the recorded path, including time, location, and elevation for each point.

Acquiring Satellite Signals and Recording a Track

Before you can use the GPS navigation features, such as recording a track, you must acquire satellite signals.

The device may need a clear view of the sky to acquire satellite signals. The time and date are set automatically based on the GPS position.

- 1 Select the blue key.
- 2 Select Start GPS.
- 3 Wait while the device locates satellites.
- 4 Travel to record a track.

Your distance and time appear.

- **5** Select ∇ to view the loop of data pages.
- 6 Hold **→**.
- 7 Select an option:
 - · Select Pause Track to pause tracking.
 - Select Save Track to save your track.
 - Select Clear Track to erase the track without saving.
 - Select Stop GPS to turn off GPS without deleting your track.

Saving the Current Track

- 1 Select the blue key.
- 2 Select Tracks > Current.
- 3 Select an option:
 - · To save the entire track, select Save.
 - To save part of the track, select Save Part, and select the part to save.

Viewing Details about the Track

- 1 Select the blue key.
- 2 Select Tracks.
- 3 Select a track.
- 4 Select View Map.

The beginning and the end of the track are marked by flags.

- 5 Select > Details.
- **6** Use \triangle and ∇ to view information about the track.

Clearing the Current Track

- 1 Select the blue key.
- 2 Select Tracks > Current > Clear.

Deleting a Track

- 1 Select the blue key.
- 2 Select Tracks.
- 3 Select a track.
- 4 Select Delete > Yes.

Sending Data to HomePort™

Before you can send data to HomePort, you must purchase HomePort and install it on your computer (www.garmin.com/homeport).

You can view tracks and waypoints on your computer.

- 1 Connect your device to your computer using the USB cable. Your device appears as a removable drive in My Computer on Windows[®] computers and as a mounted volume on Mac[®] computers.
- 2 Start HomePort.
- 3 Follow the on-screen instructions.

Sending and Receiving Data Wirelessly

Before you can share data wirelessly, you must be within 10 feet (3 m) of a compatible Garmin device.

Your device can send or receive data when connected to another compatible device. You can share waypoints, geocaches, routes, and tracks wirelessly.

- **1** Select the blue key.
- 2 Select Share Data > Unit to Unit.
- 3 Select Send or Receive.
- 4 Follow the on-screen instructions.

Sending Data to BlueChart® Mobile

Before you can share data with the BlueChart Mobile application, you must install it on your mobile device (www.garmin.com/bluechartmobile).

You can view tracks and waypoints on your mobile device.

- 1 On your quatix, select the blue key.
- 2 Select Share Data > BlueChart Mob..
- 3 Start BlueChart Mobile on your mobile device.
- 4 Follow the on-screen instructions.

See the BlueChart Mobile help for more information.

Map

▲ represents your location on the map. As you travel, the icon moves and leaves a track log (trail). Waypoint names and symbols appear on the map. When you are navigating to a destination, your route is marked with a line on the map.

- Map navigation (page 5)
- Map settings (page 11)

Browsing the Map

- **1** While navigating, select ∇ to view the map.
- 2 Select the blue key.
- 3 Select one or more options:
 - Select Pan, and select ♀, △, ▽, and to view different areas.
 - Select Zoom, and select △ and ▽ to zoom in and out of the map.

Navigating Using TracBack®

While navigating, you can navigate back to the beginning of your track. This can be helpful when finding your way back to the dock or shore.

- 1 Select the blue key.
- 2 Select Tracks > Current > TracBack.



Your current location 1, track to follow 2, and end point 3 appear on the map.

Marking and Starting Navigation to a Man Overboard Location

You can save a man overboard (MOB) location, and automatically start navigation back to it.

- Hold △, and select OK.
 The navigation page opens.
- 2 Navigate using the compass or map.

Applications

Sail Racing

You can use the quatix to increase the likelihood that your boat will cross the start line of a race exactly when the race begins. When you synchronize the race timer with the official race countdown timer, the quatix alerts you at one-minute intervals as the race start approaches. When you combine the race timer with the virtual start line, the quatix measures your speed, bearing, and remaining time on the countdown timer. The quatix uses this data to indicate whether your boat will cross the start line before, after, or at the correct time to start the race.

Setting the Race Timer

- 1 Select the blue key.
- 2 Select Sail Race > Setup > Timer.
- **3** Use the blue key, \triangle , and ∇ to set the time.

Sail Racing with the Race Timer

Before you can use the race timer to start a race, you must select the sailing profile and set the race timer.

- 1 Select the blue key.
- 2 Select Sail Race > Race.
- **3** Select △ and ▽ to synchronize the race timer with the official race countdown, and select the blue key to start the timer.

TIP: If necessary, after you start the timer you can select \triangle and ∇ to add or subtract time from the race timer.

Setting the Start Line

You can define a start line using two waypoints or the waypoint of one end of the start line and the bearing to the other end of the line.

- 1 Select the blue key.
- 2 Select Sail Race > Setup > Start Line.
- 3 Select an option:
 - To set your present location as the location of the first point of the start line, select Mark Point > Mark.
 - To use a previously saved waypoint as the location of the first point of the start line, select Select Pt., and select a waypoint.
- 4 Select an option:
 - To set your present location as the location of the second point of the start line, select Waypoints > Mark Point > Mark.
 - To use a previously saved waypoint as the location of the second point of the start line, select Waypoints > Select Pt., and select a point.
 - To set the bearing of the start line from the location of the first waypoint, select **Bearing**, and enter the bearing.

Sail Racing Using the Start Line

Before you can use the device to start a race, you must select the sailing profile and set the start line.

- Select the blue key.
- 2 Select Sail Race > Race.



The race timer screen displays the race timer ①, time to burn ②, and distance to the start line ③.

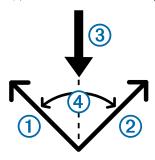
3 Select △ and ▽ to synchronize the race timer with the official race countdown, and select the blue key to start the timer.

TIP: If the burn time is negative, you will arrive at the start line after the race starts, and should modify your course or speed accordingly. If the burn time is positive, you will arrive at the start line before the race starts, and should modify your course or speed accordingly.

TIP: If necessary, after you start the timer you can select \triangle and ∇ to add or subtract time from the race timer.

Tack Assist

While cruising or racing into the wind, the tack assist feature can help you determine if your boat is being lifted or headed. When you calibrate tack assist, the device stores your boat's port ① and starboard ② courses over ground (COG), the mean true wind direction ③, and the vessel's tack angle ④.

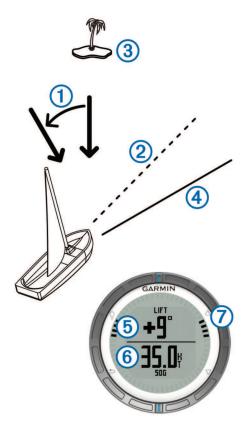


The device uses this data to determine whether your boat is being lifted or headed due wind shifts.

NOTE: The quatix uses GPS-based course over ground to determine your course in the tack assist feature, and does not account for other factors that can affect your boat's direction, such as currents and tides.

Lifted

When your boat is lifted, the wind direction ① has shifted so that your actual course ② brings you closer to your destination ③ than your intended course ④ would have.



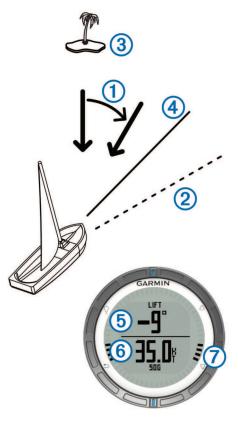
The device displays in degrees the amount that your actual course varies from your expected course ⑤ and your speed over ground ⑥. The bezel marks ⑦ provide a quick reference that represents your lift angle.

When your boat is consistently lifted, you should recalibrate the true wind direction or the angle for the current tack. Recalibration ensures the tack assist provides accurate information.

Headed

When your boat is headed, the wind direction ① has shifted so that your actual course ② pushes you farther from your destination ③ than your intended course ④ would have.

6 Applications



The device displays in degrees the amount that your actual course varies from your expected course ⑤ and your speed over ground ⑥. The bezel marks ⑦ provide a quick reference that represents your lift angle.

When your boat is consistently headed, you should change tack and recalibrate the true wind direction or the angle for the current tack. Recalibration ensures the tack assist provides accurate information.

Configuring Tack Assist Settings

- 1 Select the blue key.
- 2 Select Tack Assist.
- 3 Select an option:
 - To enable tack assist, select Turn On.
 - To disable tack assist, select Turn Off.
 - To turn bezel tick marks on or off, select Tick Marks.

Calibrating the Tack Assist

Before you can use tack assist, you must calibrate the optimal tack angle for your boat.

- 1 Select the blue key.
- 2 Select Tack Assist > Full Cal..
- 3 Follow the on-screen instructions.

Calibrating the Tack Assist Manually

During a race, you may need to adjust tack assist settings individually to adapt to changing conditions.

NOTE: See page 6 for more information about the relationship between the data stored by the tack assist feature.

- 1 Select the blue key.
- 2 Select Tack Assist.
- 3 Select an option:
 - To recalibrate the port or starboard tack direction, hold a steady course along the intended port or starboard tack, and select Recal.

NOTE: When you recalibrate the port or starboard tack direction, the tack angle remains the same, and the mean true wind direction and the opposite tack direction are recalculated.

 To change the tack angle, select Tack Angle, and select an angle.

NOTE: When you change the tack angle, the mean true wind direction remains the same, and the port and starboard tacks each change by half of the amount of change in the tack angle with respect to the true wind direction. For example, if the tack angle changes by 10°, the port tack changes by -5° and the starboard tack changes by 5°. If the tack angle changes by -10°, the port tack changes by 5° and the starboard tack changes by -5°

 To change the mean true wind direction, select True Wind D, and select the direction.

NOTE: When you change the mean true wind direction, the tack angle remains the same, and the port and starboard tack changes are equal to the amount of change in the mean true wind direction. For example, if the mean true wind direction changes by 10°, the port and starboard tacks each change by 10°.

Viewing Tide Information

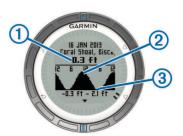
You can view information about a tide station, including the tide height and when the next high and low tides will occur.

- 1 Select the blue key.
- 2 Select Tides > Search Near.
- 3 Select an option:
 - To search near a previously saved waypoint, select Waypoints, and select or search for a waypoint.
 - To search near a specific city, select Cities, and select or search for a city.

A list of the tide stations near the selected location appears.

4 Select a station.

A 24-hour tide chart appears for the current date, showing the current tide height 1 and when the next high 2 and low tides 3 will occur.



5 Select an option:

- To view more detailed information about the next four tide peaks and troughs, select $\bigtriangledown.$
- To pan the tide chart, select the blue key, and select Pan
- To view tide information for a different date, select the blue key, select Change Date, and select the date.

Pairing With an Autopilot

You can refer to the GHC^TM owner's manual for more information about using the GHC .

- 1 Select the blue key.
- 2 Select Autopilot > Yes.
- 3 Set the GHC to search for a remote.

Applications 7

When the devices are paired, the autopilot screen appears on the quatix.

After your device is paired with your autopilot, it automatically reconnects with your autopilot every time it is within range.

NOTE: To pair with a different autopilot, hold \triangle and ∇ to reset the existing autopilot pair, and repeat steps 2 and 3.

Using Autopilot

Before you can use the quatix to control an autopilot, you must install and configure a compatible Garmin GHP™ autopilot system and pair your quatix with the GHC device. For more information, see the owner's manual for your autopilot.

- **1** Select the blue key.
- 2 Select Autopilot.
- 3 Select an option:
 - To engage the autopilot heading hold, hold a steady course, select Engage, and release the helm.



- To change the heading in 1° increments, with the autopilot engaged, select △ for port and ▽ for starboard.
- To perform a step turn, with the autopilot engaged, hold \triangle for port and ∇ for starboard.
- To activate a preset action, select Presets, and select a button action. A graphic displays a plot of the action performed by the button.
- To take the helm, select Standby.
- To view the clock and data pages, select 5.

NOTE: To quickly disengage the autopilot while viewing the clock or data pages, select the blue key, and select **Standby**.

Clock

Setting the Alarm

- 1 Select the blue key.
- 2 Select Clock > Alarm Clock > Add Alarm.
- **3** Use the blue key, \triangle , and ∇ to set the time.
- 4 Select Tone, Vibration, or Tone & Vib..
- 5 Select Once, Daily, or Weekdays.

Starting the Countdown Timer

- 1 Select the blue key.
- 2 Select Clock > Timer.
- **3** Use the blue key, \triangle , and ∇ to set the time.
- 4 If necessary, select **Notification**, and select an option.
- 5 Select Start.

Using the Stopwatch

- 1 Select the blue key.
- 2 Select Clock > Stopwatch.
- 3 Select Start.

Adding a Custom Time Zone

- **1** Select the blue key.
- 2 Select Clock > Alt. Zones > Add Zone.

3 Select a time zone.

The custom time zone page is added to the current profile.

Editing a Custom Time Zone

- 1 Select the blue key.
- 2 Select Clock > Alt. Zones.
- 3 Select a time zone.
- 4 Select an option:
 - To change the time zone, select Edit Zone.
 - To customize the name of the time zone, select Edit Label

Alerts

You can set the device to alert you in many different situations where your awareness of the surrounding conditions or other data is important. There are three types of alerts: event alerts, range alerts, and recurring alerts.

Event alert: An event alert notifies you once. The event is a specific value. For example, you can set the device to alert you when you reach a specified elevation.

Range alert: A range alert notifies you every time the device is above or below a specified range of values. For example, you can set the device to alert you when your speed is below 5 knots and over 15 knots.

Recurring alert: A recurring alert notifies you every time the device records a specified value or interval. For example, you can set the device to alert you every 30 minutes.

Alert Name	Alert Type	Description
Anchor Drag	Event	You can set a maximum distance for your vessel to drift after dropping anchor.
Proximity	Recurring	See page 8.
Distance	Event, recurring	You can set an interval or a custom distance from your final destination.
Time	Event, recurring	You can set an interval or a custom time from your estimated time of arrival.
Elevation	Event, range, recurring	You can set minimum and maximum elevation values. You can also set the device to alert you when you ascend or descend a specified amount.
Nav. Arrival	Event	You can set alerts for reaching waypoints and the final destination of a track or route.
Speed	Range	You can set minimum and maximum speed values.
Battery	Event	You can set a minimum battery power value.

Setting a Proximity Alarm

Proximity alarms alert you when you are within a specified range of a particular location.

- 1 Select the blue key.
- 2 Select Alerts > Proximity > Edit > Create New.
- 3 Select a location.
- 4 Enter a radius.
- 5 Select Done.

Navigating with Sight 'N Go

You can point the device at an object in the distance, such as a water tower, lock in the direction, and navigate to the object.

- 1 Select the blue key.
- 2 Select GPS Tools > Sight 'N Go.
- **3** Point the blue marks on the bezel at an object.
- 4 Select the blue key.

8 Applications

- 5 Select an option:
 - · Select Set Course to navigate to the distant object.
 - · Select Project (page 3).
- 6 Navigate using the compass (page 2) or map (page 5).

Calculating the Size of an Area

Before you can calculate the size of an area, you must acquire satellites (page 2).

- 1 Select the blue key.
- 2 Select GPS Tools > Area Calc..
- **3** Walk around the perimeter of the area you want to calculate.
- 4 When you are finished, select the blue key to calculate the area.
- 5 Select an option:
 - Select Save Track, enter a name, and select Done.
 - Select Change Units to convert the area to a different unit.
 - Select to exit without saving.

Viewing the Almanacs

You can view almanac information for the sun and moon, and hunting and fishing.

- 1 Select the blue key.
- 2 Select an option:
 - To view the sunrise, sunset, moonrise, and moonset information, select GPS Tools > Sun & Moon.
 - To view the predicted best times for hunting and fishing, select GPS Tools > Hunt & Fish.
- **3** If necessary, select \triangle or ∇ to view a different day.

Viewing Satellite Information

The satellite page shows your current location, GPS accuracy, satellite locations, and signal strength.

- 1 Select the blue key.
- 2 Select Start GPS.
- 3 Select the blue key.
- 4 Select GPS Tools > Satellite.
- **5** Select ∇ to view additional information.

Simulating a Location

When you are planning routes or activities in a different area, you can turn off GPS and simulate a different location.

- **1** Select the blue key.
- 2 Select Setup > System > GPS Mode > Demo Mode.
- 3 Select a location.
- 4 Select Go > Move to Location.

ANT+™ Sensors

The device is compatible with these optional, wireless ANT+ accessories.

- tempe[™] wireless temperature sensor (page 10)
- Heart rate monitor

For information about compatibility and purchasing additional sensors, go to http://buy.garmin.com.

Pairing ANT+ Sensors

Pairing is the connecting of ANT+ wireless devices, for example, connecting a tempe temperature sensor with your Garmin device.

- **1** Bring the device within range (3 m) of the sensor.
 - **NOTE:** Stay 10 m away from other ANT+ sensors while pairing.
- 2 Select the blue key.
- 3 Select Setup > ANT Sensor.
- 4 Select your sensor.
- 5 Select New Search.

When the sensor is paired with your device, the sensor status changes from **Searching** to **Connected**. Sensor data appears in the data page loop or a custom data field.

Tips for Pairing ANT+ Accessories with Your Garmin Device

- Verify that the ANT+ accessory is compatible with your Garmin device.
- Before you pair the ANT+ accessory with your Garmin device, move 10 m (32.9 ft.) away from other ANT+ accessories.
- Bring the Garmin device within range 3 m (10 ft.) of the ANT+ accessory.
- After you pair the first time, your Garmin device automatically recognizes the ANT+ accessory each time it is activated. This process occurs automatically when you turn on the Garmin device and only takes a few seconds when the accessories are activated and functioning correctly.
- When paired, your Garmin device receives data from only your accessory, and you can go near other accessories.

Streaming NMEA 2000 Data

While tracking or navigating, your device can stream data from a NMEA 2000 network equipped with a Garmin GNT.

- 1 Select the blue key.
- 2 Select Setup > ANT Sensor > GNT > On.

The data pages display information from the sensors connected to the NMEA 2000 network. You can customize the data fields that appear on each data page.

- 3 Select 5 twice.
- 4 Select Stream N2K to begin streaming NMEA 2000 data.

To stop streaming NMEA 2000 data, select the blue key, and select **Stop N2K**.

Using Automatic Man Overboard

If your device is connected to a Garmin GNT, you can set the device to automatically trigger the preset man overboard function if the device loses contact with a GNT for more than 10 seconds.

- 1 Select the blue key.
- 2 Select Auto MOB > On.

When the device loses contact with a GNT for more than 10 seconds, the man overboard function is activated on the device and on all Garmin chartplotters connected to the NMEA 2000 network. A man overboard waypoint is created on the chartplotter and on the device.

- 3 Select an option:
 - To acknowledge the man overboard activation and save the MOB waypoint, select Confirm.
 - To dismiss the man overboard activation in the case of accidental triggering, select Clear.
 - To dismiss the man overboard activation and turn off the automatic man overboard function, select **Disable**.

ANT+™ Sensors 9

tempe

The tempe is an ANT+ wireless temperature sensor. You can attach the sensor to a secure strap or loop where it is exposed to ambient air, and therefore, provides a consistent source of accurate temperature data. You must pair the tempe with your device to display temperature data from the tempe.

Putting On the Heart Rate Monitor

NOTE: If you do not have a heart rate monitor, you can skip this task.

You should wear the heart rate monitor directly on your skin, just below your breastplate. It should be snug enough to stay in place during your activity.

1 Snap the heart rate monitor module ① onto the strap.



2 Wet both electrodes ② on the back of the strap to create a strong connection between your chest and the transmitter.



- 3 If the heart rate monitor has a contact patch ③, wet the contact patch.
- **4** Wrap the strap around your chest, and connect the strap hook ④ to the loop.

The Garmin logo should be right-side up.

5 Bring the device within range (3 m) of the heart rate monitor.

After you put on the heart rate monitor, it is on standby and ready to send data.

TIP: If the heart rate data is erratic or does not appear, you may have to tighten the strap on your chest or warm up for 5–10 minutes.

Customizing Your Device

Setup Overview

The setup menu contains numerous ways to customize your device. Garmin recommends that you take the time to familiarize yourself with the settings for each feature. If you take the time to customize your settings before your activity, you will spend less time adjusting the watch during your activity.

Select the blue key, and select **Setup**.

NOTE: Any changes you make are saved to the active profile (page 1).

System: Sets the GPS settings, arrow keys, and the device language (page 10).

Data Pages: Customizes data pages and data fields (page 10).

Sensors: Customizes the compass (page 10) and altimeter (page 11) settings.

ANT Sensor: Sets up wireless accessories such as the heart rate monitor or tempe (page 9).

Tones: Customizes the tones and vibrations (page 11).

Display: Adjusts the backlight and screen contrast (page 11).

Reset: Clears the trip data, sensor plots (page 15), waypoints, or track log, or resets all of your settings (page 15).

Map: Customizes the map orientation and how items appear on the map (page 11).

Tracks: Customizes the track recording settings (page 11).

Time: Customizes the appearance of the time page (page 11).

Units: Changes the units of measure for data such as distance, elevation, and temperature (page 11).

Pos. Format: Changes how your position data appears (page 11).

Profiles: Changes the active profile and allows you to edit your profiles (page 1).

Menu: Customizes the items that appear in the main menu (page 11).

About: Shows information about the device and software (page 11).

System Settings

Select Setup > System.

GPS Mode: Sets the GPS to **Normal**, or **Demo Mode** (GPS off).

WAAS: Sets the device to use Wide Area Augmentation System (WAAS) GPS signals. For information about WAAS, go to www.garmin.com/aboutGPS/waas.html.

Hot Keys: Allows you to customize the hold function of the arrow keys.

Language: Sets the text language on the device.

NOTE: Changing the text language does not change the language of user-entered data or map data.

USB Mode: Sets the device to use mass storage mode or Garmin mode when connected to a computer.

Customizing the Data Pages

You can customize the data pages for each profile.

- **1** Select the blue key.
- 2 Select Setup > Data Pages.
- 3 Select a category.
- 4 Select an option:
 - To modify the data pages that appear when you are not streaming NMEA 2000 data, select GPS.
 - To modify the data pages that appear when you are streaming NMEA 2000 data, select N2K Stream.
- 5 Select Add Page.
- **6** Follow the on-screen instructions to select the number of data fields and the type of data to appear.
- 7 If necessary, select an existing data page.
- 8 Select an option:
 - · Select Edit, and change the data fields.
 - Select Move Up or Move Down to change the order of the data pages.
 - Select **Delete** to remove the data page from the page loop.

Compass Settings

Select Setup > Sensors > Compass.

Display: Sets the directional heading on the compass to degrees or milli-radians.

North Ref.: Sets the north reference of the compass (page 11).

Mode: Sets the compass to use either a combination of GPS and the electronic sensor data when moving (Auto) or GPS data only (Off). **Calibrate**: Allows you to manually calibrate the compass sensor (page 2).

Setting the North Reference

You can set the directional reference used in calculating heading information.

- **1** Select the blue key.
- 2 Select Setup > Sensors > Compass > North Ref..
- 3 Select an option:
 - To set geographic north as the heading reference, select True.
 - To set the magnetic declination for your location automatically, select **Magnetic**.
 - To set grid north (000°) as the heading reference, select Grid.
 - To set the magnetic variation value manually, select User, enter the magnetic variance, and select Done.

Altimeter Settings

Select Setup > Sensors > Altimeter.

Auto Cal.: Allows the altimeter to self-calibrate each time you turn on GPS tracking.

Baro. Plot: Variable records changes in elevation while you are moving. Fixed assumes the device is stationary at a fixed elevation, so the barometric pressure should only change due to weather. Amb. Press. records ambient pressure changes over a period of time.

Elev. Plot: Sets the device to record elevation changes over a period of time or distance.

Calibrate: Allows you to manually calibrate the altimeter sensor.

Setting the Device Tones

You can customize tones for messages and keys.

- 1 Select the blue key.
- 2 Select Setup > Tones.
- 3 Select Messages or Keys.
- 4 Select an option.

Display Settings

Select Setup > Display.

Backlight: Adjusts the backlight level and the length of time before the backlight turns off.

Contrast: Adjusts the screen contrast.

Map Settings

Select Setup > Map.

Orientation: Adjusts how the map is shown on the page. **North Up** shows North at the top of the page. **Track Up** shows your current direction of travel toward the top of the page.

Auto Zoom: Automatically selects the appropriate zoom level for optimal use on your map. When **Off** is selected, you must zoom in or out manually.

Points: Selects the zoom level for points on the map.

Track Log: Allows you to show or hide tracks on the map.

Go To Line: Allows you to select how the course appears on the map.

Map Colors: Allows you to select whether land or water is highlighted on the map.

Track Settings

Select **Setup > Tracks**.

Method: Selects a track recording method. **Auto** records the tracks at a variable rate to create an optimum representation of your tracks. If you select **Distance** or **Time**, you can set the interval rate manually.

Interval: Allows you to set the track log recording rate. Recording points more frequently creates a more-detailed track, but it fills the track log faster.

Auto Start: Sets the device to record your track automatically when you select **Start GPS**.

Auto Save: Sets the device to automatically save your track when you turn off GPS.

Auto Pause: Sets the device to stop recording your track when you are not moving.

Time Settings

Select Setup > Time.

Time Page: Allows you to customize the appearance of the time of day.

Format: Allows you to select a 12-hour or a 24-hour display time.

Time Zone: Allows you to select the time zone for the device. You can select **Auto** to set the time zone automatically based on your GPS position.

Changing the Units of Measure

You can customize units of measure for distance and speed, elevation, depth, temperature, and pressure.

- Select the blue key.
- 2 Select Setup > Units.
- 3 Select a measurement type.
- 4 Select a unit of measure.

Position Format Settings

NOTE: Do not change the position format or the map datum coordinate system unless you are using a map or chart that specifies a different position format.

Select Setup > Pos. Format.

Format: Sets the position format in which a given location reading appears.

Datum: Sets the coordinate system on which the map is structured.

Spheroid: Shows the coordinate system the device is using. The default coordinate system is WGS 84.

Customizing the Main Menu

You can add, delete, or move items in the main menu.

- Select the blue key.
- 2 Select Setup > Menu.
- 3 Select a menu item.
- 4 Select an option:
 - Select Move Up or Move Down to change the location of the item in the list.
 - · Select Remove to delete an item from the list.
 - · Select Insert to add an item to the list.

Device Information

Viewing Device Information

You can view the unit ID, software version, and license agreement.

Select the blue key.

Device Information 11

Updating the Software

NOTE: Updating the software does not erase any of your data or settings.

- 1 Connect your device to a computer using the USB cable.
- **2** Go to www.garmin.com/products/webupdater.
- 3 Follow the on-screen instructions.

Device Care

NOTICE

Do not use a sharp object to clean the device.

Avoid chemical cleaners, solvents, and insect repellents that can damage plastic components and finishes.

Thoroughly rinse the device with fresh water after exposure to chlorine, salt water, sunscreen, cosmetics, alcohol, or other harsh chemicals. Prolonged exposure to these substances can damage the case.

Avoid pressing the keys under water.

Avoid extreme shock and harsh treatment, because it can degrade the life of the product.

Do not store the device where prolonged exposure to extreme temperatures can occur, because it can cause permanent damage.

Cleaning the Device

- 1 Wipe the device with a cloth dampened with a mild detergent solution.
- 2 Wipe it dry.

Specifications

Battery type	500 mAh Lithium-ion battery
Battery life	Up to 6 weeks
Water resistance	Water resistant to 164 ft. (50 m)
	NOTE: The watch is designed for surface swimming.
Operating temperature range	From -4°F to 122°F (from -20°C to 50°C)
Radio frequency/ protocol	2.4 GHz ANT+ wireless communications protocol Bluetooth® Smart device

Battery Information

The actual battery life depends on how much you use GPS, device sensors, optional wireless sensors, and the backlight.

Battery Life	Mode
16 hours	Normal GPS mode
25 hours	NMEA 2000 streaming, GPS off
Up to 2 weeks	Always On sensor mode
Up to 6 weeks	Watch mode

Data Management

NOTE: The device is not compatible with Windows 95, 98, Me, Windows NT®, and Mac OS 10.3 and earlier.

File Types

The device supports these file types.

- Files from HomePort. Go to www.garmin.com/trip_planning.
- GPI custom POI files from the Garmin POI Loader. Go to www.garmin.com/products/poiloader.
- · GPX track files.
- GPX geocache files. Go to www.opencaching.com.

Deleting Files

NOTICE If you do not know the purpose of a file, do not delete it. Your device memory contains important system files that should not

- 1 Open the Garmin drive or volume.
- 2 If necessary, open a folder or volume.
- Select a file.

be deleted.

4 Press the Delete key on your keyboard.

Disconnecting the USB Cable

If your device is connected to your computer as a removable drive or volume, you must safely disconnect your device from your computer to avoid data loss. If your device is connected to your Windows computer as a portable device, it is not necessary to safely disconnect.

- 1 Complete an action:
 - For Windows computers, select the **Safely Remove Hardware** icon in the system tray, and select your device.
 - For Mac computers, drag the volume icon to the trash.
- 2 Disconnect the cable from your computer.

Data Fields

ACCURACY (GPS): The margin of error for your exact location. For example, your GPS location is accurate to within +/- 12 feet (3.65 m).

AIRTEMP (temperature): The temperature of the air. Your body temperature affects the temperature sensor.

AMB PRESS (ambient pressure): The uncalibrated environmental pressure.

ASCENT (ascent total): The total elevation distance ascended since the last reset.

AVG ASCENT (average ascent): The average vertical distance of ascent since the last reset.

AVG DESCNT (average descent): The average vertical distance of descent since the last reset.

AVG SPEED (average speed overall): The average speed while moving and stopped since the last reset.

BAROMETER (barometer pressure): The calibrated current pressure.

BATTERY: The remaining battery power.

BEARING: The direction from your current location to a destination. You must be navigating for this data to appear.

COG (course over ground): The actual direction of travel, regardless of the course steered and temporary variations in heading.

COMPASS: A visual representation of the direction in which the device is pointing.

COURSE: The direction from your starting location to a destination. Course can be viewed as a planned or set route. You must be navigating for this data to appear.

CRRCTD HDG (corrected heading): The heading based on your direction of travel. If you are not moving, the corrected heading is the compass heading.

CTS (course to steer): The direction in which you must steer to return to the course set at start of navigation.

DATE: The current day, month, and year.

DESCENT (descent total): The total elevation distance descended since the last reset.

DISTANCE (trip odometer): A running tally of the distance traveled since the last reset.

- **ELEVATION**: The altitude of your current location above or below sea level.
- **FINAL DEST (waypoint at final destination)**: The last point on the route to the destination. You must be navigating for this data to appear.
- **FINAL DIST (distance to final destination)**: The remaining distance to the final destination. You must be navigating for this data to appear.
- FINAL ETA (estimated time of arrival at final destination):

 The estimated time of day you will reach the final destination
 (adjusted to the local time of the destination). You must be
 navigating for this data to appear.
- FINAL ETE (estimated elapsed time to final destination):
 The estimated time remaining before you reach the destination. You must be navigating for this data to appear.
- **FINAL LOC (final location)**: The position of your final destination.
- **FINAL VDST (vertical distance to final destination)**: The elevation distance between your current position and the final destination. You must be navigating for this data to appear.
- **FINAL VSPD (vertical speed to final destination)**: The rate of ascent or descent to a predetermined altitude. You must be navigating for this data to appear.
- **GLIDE RATIO**: The glide ratio required to descend from your current position to the destination elevation. You must be navigating for this data to appear.
- GPS (signal strength): The strength of the GPS satellite signal.
- **GPS ELEVTN (GPS elevation)**: The altitude of your current location using GPS.
- **GRADE**: The calculation of rise (elevation) over run (distance). For example, if for every 10 feet (3 m) you climb you travel 200 feet (60 m), the grade is 5%.
- **GR DEST (glide ratio to destination)**: The glide ratio required to descend from your current position to the destination elevation. You must be navigating for this data to appear.
- **HEADING** (compass heading): The direction the device is pointing based on the compass.
- **HEART RATE**: Your heart rate in beats per minute (bpm). Your device must be connected to a compatible heart rate monitor.
- **LAT/LON (latitude/longitude)**: The current position in latitude and longitude regardless of the selected position format setting.
- **LIFT** (lift angle): The degree to which your vessel is being headed or lifted.
- **LOCATION** (selected): The current position using the selected position format setting.
- **MAX ASCENT (maximum ascent)**: The maximum rate of ascent in feet per minute or meters per minute since the last reset.
- MAX DESCNT (maximum descent): The maximum rate of descent in feet per minute or meters per minute since the last reset.
- **MAX ELEVTN (maximum elevation)**: The highest elevation reached since the last reset.
- MAX SPEED (maximum speed): The highest speed reached since the last reset.
- **MAX TEMP**: The maximum temperature recorded in the last 24 hours.
- **MIN ELEVTN (minimum elevation)**: The lowest elevation reached since the last reset.
- **MIN TEMP**: The minimum temperature recorded in the last 24 hours.

- **MOV'N AVG (moving average)**: The average speed while moving since the last reset.
- **MOV'N TIME (moving time)**: A running tally of the time spent moving since the last reset.
- **NEXT DEST (next destination)**: The next point on the route. You must be navigating for this data to appear.
- **NEXT DIST (next distance)**: The remaining distance to the next waypoint on the route. You must be navigating for this data to appear.
- **NEXT ETA**: The estimated time of day you will reach the next waypoint on the route (adjusted to the local time of the waypoint). You must be navigating for this data to appear.
- **NEXT ETE**: The estimated time remaining before you reach the next waypoint in the route. You must be navigating for this data to appear.
- **NEXT VDST (next vertical distance)**: The elevation distance between your current position and the next waypoint in the route. You must be navigating for this data to appear.
- **ODOMETER:** A running tally of distance traveled for all trips. This total does not clear when resetting the trip data.
- **SOG (speed over ground)**: The actual speed of travel, regardless of the course steered and temporary variations in heading.
- **STOP TIME**: A running tally of the time spent not moving since the last reset.
- **STOPWATCH**: The stopwatch time for the current activity.
- **SUNRISE**: The time of sunrise based on your GPS position.
- **SUNSET**: The time of sunset based on your GPS position.
- **TIME**: A running tally of the total time spent moving and not moving since the last reset.
- **TIMER**: The current time of the countdown timer.
- **TO COURSE**: The direction in which you must move to get back on the route. You must be navigating for this data to appear.
- **TOD** (time of day): The current time of day based on your current location and time settings (format, time zone, daylight saving time).
- **TRACK DIST (track distance)**: The distance traveled for the current track.
- **TURN**: The angle of difference (in degrees) between the bearing to your destination and your current course. L means turn left. R means turn right. You must be navigating for this data to appear.
- **VERT SPEED (vertical speed)**: The rate of ascent or descent over time.
- VMG (velocity made good): The speed at which you are closing on a destination along a route. You must be navigating for this data to appear.
- **VMG TO WP (velocity made good to waypoint)**: The speed at which you are approaching a waypoint when navigating.
- **XTE (cross track error)**: The distance to the left or right by which you have strayed from the original path of travel. You must be navigating for this data to appear.

NMEA 2000 Data Fields

- **AWA (apparent wind angle)**: The wind angle measured relative to the bow of the vessel.
- A WIND CHL (apparent wind chill): The temperature of the wind chill relative to the boat.
- AWS (apparent wind speed): The measured speed of the wind.
- **CARD WIND (cardinal wind direction)**: The true wind direction described in cardinal directions.
- **DEPTH**: The depth of the water.
- **DRIFT**: The speed of the current.

Device Information 13

- **GWD (ground wind direction)**: The direction of the wind relative to the land, referenced from the north.
- **G WIND CHL (ground wind chill)**: The temperature of the wind chill relative to the land.
- **GWS (ground wind speed)**: The speed of the wind relative to the ground. When there are no currents and no leeway, the ground wind speed is equivalent to the true wind speed.
- OPP TACK (opposite tack heading): The opposite tack direction of the vessel based on the current tack direction
- **SET**: The direction of the current referenced from the north.
- **STW (speed through water)**: The speed of the boat relative to the water.

- **TWA (true wind angle)**: The angle of the wind relative to the water, referenced from the bow of the boat with a port or starboard angle up to 180 degrees.
- **TWD (true wind direction)**: The true direction of the wind relative to North.
- **TWS (true wind speed)**: The true speed of the wind relative to the vessel.
- VMG TO WND (velocity made good to wind): The speed at which you are making progress into the wind.
- **WATER TEMP (water temperature)**: The temperature of the water.

Data Pages

TIP: You can customize the data pages for each profile (page 10).

By default, these pages appear in all profiles when you are not tracking or navigating. These data pages cannot be customized.

Page	GPS Off
1	Clock
2	Temperature
3	Barometer
4	Compass

By default, these pages appear for the sailing profile when you are tracking or navigating.

NOTE: The tack assist page only displays when the tack assist feature is enabled (page 7).

Page	Tracking	Navigating	Tracking with NMEA 2000 Data	Navigating with NMEA 2000 Data
1	Tack assist	Tack assist	Tack assist	Tack assist
2	Course over ground and speed over ground	Distance to next, elapsed time, and bearing	Course over ground, depth, and speed over ground	Course over ground, depth, and speed over ground
3	Distance and time	Course over ground and speed over ground	Мар	Bearing and distance to opposite tack
4	Compass	Distance and time	Wind VMG	Мар
5	Barometer	Compass	TWS and TWD	Wind VMG and TWS
6	Temperature	Barometer	AWS and AWA	AWS and AWA
7	Мар	Temperature	Clock	Clock
8	Clock	Мар		
9		Clock		

By default, these pages appear for the powerboat profile when you are tracking or navigating.

Page	Tracking	Navigating	Tracking with NMEA 2000 Data	Navigating with NMEA 2000 Data
1	Course over ground and speed over ground	Distance to next, elapsed time, and bearing	Course over ground and speed over ground	Estimated time en route, distance, and estimated time of arrival
2	Distance and time	Course over ground and speed over ground	Мар	Мар
3	Compass	Distance and time	Water temperature and depth	Water temperature and depth
4	Barometer	Compass	Clock	Clock
5	Temperature	Barometer		Course over ground and speed over ground
6	Мар	Temperature		
7	Clock	Мар		
8		Clock		

By default, these pages appear for the water sports profile when you are tracking or navigating.

Page	Tracking	Navigating	Tracking with NMEA 2000 Data	Navigating with NMEA 2000 Data
1	Course over ground and speed over ground	Distance to next, elapsed time, and bearing	Course over ground and speed over ground	Course over ground and speed over ground
2	Distance and time	Course over ground and speed over ground	Мар	Distance to next, elapsed time, and bearing
3	Compass	Distance and time	Water temperature and depth	Мар
4	Barometer	Compass	Clock	Water temperature and depth

Page	Tracking	Navigating	Tracking with NMEA 2000 Data	Navigating with NMEA 2000 Data
5	Temperature	Barometer		Clock
6	Мар	Temperature		
7	Clock	Мар		
8		Clock		

By default, these pages appear for the fitness profile.

Page	Tracking	Navigating
1	Distance, time, and pace	Estimated time en route, Distance to next, estimated time of arrival
2	Speed over ground	Distance, time, and pace
3	Altimeter	Speed over ground
4	Compass	Altimeter
5	Мар	Compass
6	Clock	Мар
7		Clock

Troubleshooting

Locking the Keys

You can lock the keys to prevent inadvertent key presses.

- Select the data page you want to view while the keys are locked.
- 2 Hold

 and

 to lock the keys.
- **3** Hold $\stackrel{\bullet}{\longrightarrow}$ and \triangle to unlock the keys.

Resetting Your Device

If the device stops responding, you may need to reset it.

- 1 Hold ♀ for at least 25 seconds.
- 2 Hold ♀ for one second to turn on the device.

Resetting the Device to Factory Settings

You can restore all of the device settings to the factory default values.

- 1 Select the blue key.
- 2 Select Setup > Reset > All Settings > Yes.

Clearing All Sensor Plot Data

- 1 Select the blue key.
- 2 Select Setup > Reset > Clear Plots > Yes.

Appendix

Registering Your Device

Help us better support you by completing our online registration today.

- Go to http://my.garmin.com.
- Keep the original sales receipt, or a photocopy, in a safe place.

Getting More Information

You can find more information about this product on the Garmin website.

- Go to www.garmin.com/marine.
- Go to www.garmin.com/learningcenter.
- Go to http://buy.garmin.com, or contact your Garmin dealer for information about optional accessories and replacement parts.

Software License Agreement

BY USING THE DEVICE, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOLLOWING

SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY.

Garmin Ltd. and its subsidiaries ("Garmin") grant you a limited license to use the software embedded in this device (the "Software") in binary executable form in the normal operation of the product. Title, ownership rights, and intellectual property rights in and to the Software remain in Garmin and/or its third-party providers.

You acknowledge that the Software is the property of Garmin and/or its third-party providers and is protected under the United States of America copyright laws and international copyright treaties. You further acknowledge that the structure, organization, and code of the Software, for which source code is not provided, are valuable trade secrets of Garmin and/or its third-party providers and that the Software in source code form remains a valuable trade secret of Garmin and/or its third-party providers. You agree not to decompile, disassemble, modify, reverse assemble, reverse engineer, or reduce to human readable form the Software or any part thereof or create any derivative works based on the Software. You agree not to export or re-export the Software to any country in violation of the export control laws of the United States of America or the export control laws of any other applicable country.

Appendix 15

Index	locations 2, 9 editing 3	tracks 2
A	saving 3	trip plan
accessories 9, 15	locking, keys 15	troubles
alarms 8	M	U
clock 8	main menu, customizing 11	unit ID 1
proximity 8 alerts 8	man overboard, automatic 9 maps 4	units of updating
location 8	browsing 5	USB
almanac	navigating 5	disco
hunting and fishing 9	orientation 11	trans
sunrise and sunset 9 altimeter 2, 11, 15	settings 11 zoom 5	user dat
ANT+ sensors 9	menu 1	V
pairing 9	MOB (man overboard) 5	vibration
area calculation 9	moon phase 9	W
autopilot 8	N	WAAS '
pairing 7 unpairing 7	navigation 2	water re
	compass 2	waypoin
B backlight 1 11	Sight 'N Go 8	delet editir
backlight 1, 11 barometer 2, 15	stopping 3 waypoints 3	proje
battery 12	NMEA 2000 9	savir
charging 1	north reference 11	Z
life 12	Р	zones, ti
bearing pointer 3 BlueChart Mobile 5	pairing, ANT+ sensors 9	zooming
	pairing ANT+ sensors 9	maps
C as lib making a	POI Loader 12	
calibrating altimeter 2	position format 11 product registration 15	
compass 2	profiles 1	
charging the device 1	proximity alarms 8	
cleaning the device 12	R	
compass 2, 3, 10, 11 computer, connecting 4	racing 5	
contrast 11	registering the device 15	
coordinates 2	resetting, device 15	
countdown timer 8	restoring settings 15 routes 2, 4	
customizing the device 10	creating 4	
D	deleting 4	
data, sharing 4	editing 4	
data fields 10, 13 data streaming 9	viewing on the map 4	
deleting	S	
all user data 12	sailing	
locations 3	race start line 5 race timer 5	
profiles 1 demo mode 9	racing 5	
device	tack angles 7	
registration 15	tack assist 6, 7 satellite page 9	
resetting 15 distance 4	satellite signals 2, 4, 9	
distance 4	screen 11	
E	settings 10, 11, 15	
elevation 2 plot 2, 15	sharing data 4 Sight 'N Go 8	
plot 2, 13	software	
F	updating 12	
files, types 12	version 11	
fishing times 9	software license agreement 11, 15 specifications 12	
G	speed 4	
geocaches 4 GPS 10, 12	stopwatch 8	
signal 2 , 4 , 9	sunrise and sunset times 9	
stopping 2, 9	system settings 10	
н	Т	
heart rate monitor 9, 10	tack assist 6, 7	
HomePort 4, 12	tempe 9, 10 temperature 2, 10	
hunting and fishing times 9	tides 7	
K	time settings 8, 11	
keys 1, 10	time zones 8, 11	
locking 15	timer, countdown 8 tones 8, 11	
L	TracBack 5	
language 10		

tracks 2, 4, 11 deleting 4 trip planner. See routes troubleshooting 15 11 of measure 11 ng software 12 connecting 12 nsferring files 12 ata, deleting 12 on alerts 11 S 10
resistance 12
pints 1–4
leting 3
iting 3
piecting 3
ving 3 , time 8 ng 1 pps 5

16 Index

www.garmin.com/support



Garmin International, Inc.

1200 East 151st Street Olathe, Kansas 66062, USA

Garmin (Europe) Ltd.

Liberty House, Hounsdown Business Park Southampton, Hampshire, SO40 9LR UK

Garmin Corporation

No. 68, Zhangshu 2nd Road, Xizhi Dist. New Taipei City, 221, Taiwan (R.O.C.)









