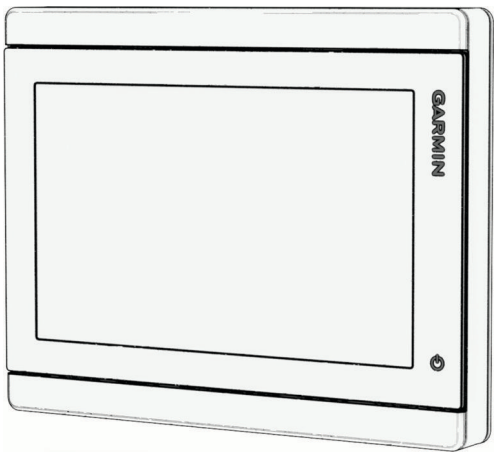
GARMIN®

GMI™ 40



Owner's Manual

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Introduction

⚠ WARNING

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

About the Marine Instrument

The GMI™ 40 marine instrument provides information at a glance from connected sensors and other devices. The instrument receives power and basic sensor data from your NMEA 2000® network.

If you connected the instrument to your Garmin BlueNet™ network, you can use additional functionality with other compatible chartplotters and devices (optional):

- You can add the instrument to a station on the vessel.
- You can synchronize basic settings with other connected chartplotters, such as the backlight.
- You can control the instrument as part of a station using a wired remote input device such as a GRID™10 or GRID 20 on the NMEA 2000 network.

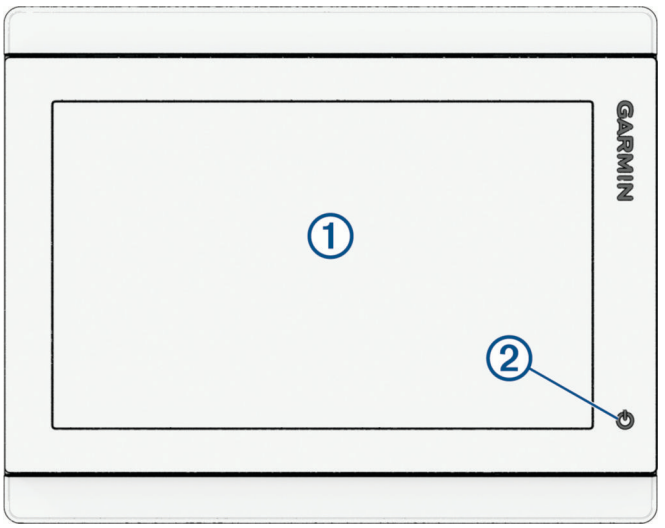
  NOTE: The GMI 40 marine instrument must be connected to Garmin BlueNet network and NMEA 2000 network to use a wired GRID device. If you are using only a NMEA 2000 connection to the instrument, you can connect a GRID 20 device to the instrument using a wireless data connection (*Communication with Wireless Devices*, page 8).
- You can update the software on the instrument as part of a full marine network software update.

Compatible chartplotters and devices[1]:

- GPSMAP® 9000 series chartplotters
- GPSMAP 8000 series chartplotters
- GPSMAP x3 series chartplotters
- GPSMAP 10x2 and 12x2 series chartplotters
- TD 50 displays
- GHC™ 50 autopilot instruments
- GRID 10 and GRID 20 remote input devices

NOTE: Device compatibility may change or expand in the future. Go to support.garmin.com for the most current information on compatible devices.

Device Overview



1	Touchscreen
2	Power key

[1] Compatible devices with only a Legacy Garmin® Marine Network connection must connect to the marine instrument through a Garmin BlueNet Gateway. See garmin.com/manuals/bluenet for more information.

Setting the Vessel Type

You can select the type of vessel to configure the instrument settings and to use features customized for your vessel. Some features, such as sailing features, are available only when using the appropriate vessel type.

1. Select ⚙ > **My Vessel** > **Vessel Type**.
2. Select an option.

Adjusting the Backlight

1. Select ⚙ > **System** > **Sounds and Display** > **Backlight**.
2. Adjust the backlight.

   TIP: From any screen, press ⏻ repeatedly to scroll through the brightness levels. This can be helpful when the brightness is so low you cannot see the screen.

Adjusting the Color Mode

1. Select ⚙ > **System** > **Sounds and Display** > **Color Mode**.

   TIP: Select ⏻ > **Color Mode** from any screen to access the color settings.
2. Select an option.

Adjusting the Color Theme

You can change the highlight and accent color used on most chartplotter screens.

1. Select ⚙ > **System** > **Sounds and Display** > **Color Theme**.
2. Select an option.

Enabling Screen Lock

For anti-theft protection and to prevent unauthorized use of your device, you can enable the Screen Lock feature which requires a PIN (Personal Identification Number). When enabled, you must enter the PIN to unlock the screen each time you turn on the device. You can set up recovery questions and answers as prompts in case you forget the PIN.

NOTICE

If you enable the Screen Lock feature, Garmin® Support cannot retrieve the PIN or access your device. It is your responsibility to provide the PIN to anyone authorized to use the vessel.

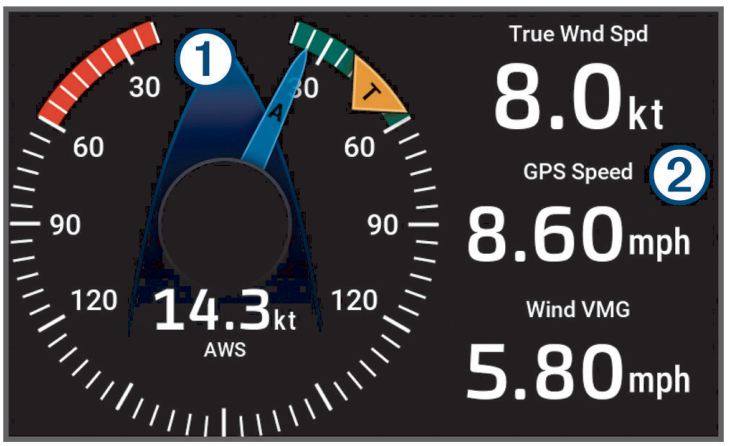
1. Select ⚙ > **System** > **Sounds and Display** > **Screen Lock** > **Setup**.
2. Enter a memorable numeric PIN of 6 digits.
3. Reenter the PIN to verify.
4. When prompted, choose and answer three PIN recovery questions.

You can Disable or Reset the PIN and recovery questions as needed.

Gauges

The gauges are the primary pages shown on the GMI™ 40 device. Each gauge can show a wide variety of data in different ways based on the sensors and other input devices connected to the same Garmin BlueNet™ network, Garmin® Marine Network, or NMEA 2000® network as the instrument.

Received data can be shown in numeric data fields, analog gauges, or graphs based on the type of data and your preferences. Data shown on each gauge can be modified as needed.



1	Analog gauge display. This example is a wind gauge showing both true and apparent wind angles along with the apparent wind speed.
2	Data fields. This example shows data from a wind sensor and a GPS antenna.

Changing the Data Shown in a Gauge or Field

You can customize various elements of gauges in all gauges on the device.

1. From a gauge you want to customize, touch and hold the element you want to change.

   You can change data fields, analog gauge appearance and data shown, and graph perimeters.
2. To change the type of data shown in a field, select **Replace Data** and select the data you want to show.

Changing the Data Source on a Gauge

You may have more than one type of sensor connected to the same Garmin BlueNet™ network, Garmin® Marine Network, or NMEA 2000® network as the instrument. You can select the specific sensor you want to use for any applicable element in any gauge.

1. When viewing a gauge showing data that is being provided by one of multiple connected sources, touch and hold the data field or applicable element.
2. Select **Select Sensor**.

   This setting is not available if there are not multiple sources provided for the data type.
3. Select the sensor you want to use for this data type.

Setting Gauge Limits

Some type of data shown on gauges can be configured for your preferences as needed. In some situations, you may prefer more precision than is needed in other situations. For example, the default gauge limit for boat speed is between 0 and 40 knots. If your vessel cannot travel above 10 knots, you may want to set the boat speed gauge limit to 10 knots to show more precision in your situation.

1. From a gauge you want to customize, touch and hold the element for which you want to change the limits and select **Set Gauge Limits**.

   Not all sensors or data types have limits that can be customized. If Set Gauge Limits is not shown for a particular element, no further customization is possible for that element.
2. Select and adjust the gauge limits for your particular sensor as needed, such as the rated maximum and minimum values. You can also adjust the maximum scale value for many elements.

Gauge Sets

The gauges on this instrument are organized in to sets of similar data, such as gauges for engine data and gauges for fuel data. You can quickly change between gauges in these sets. You can also customize what gauges appear in each set, and you can create and remove these groups as needed.

The data shown in the gauges on this device is received from sources connected to the same Garmin BlueNet™ network, Garmin® Marine Network, or NMEA 2000® network as the instrument.

	Touch to show the gauge sets.
•••	Touch to open the options menu for the selected gauge.
	Touch to open the settings menu for the device.
1	Gauge sets. Drag to the left and right to view all available sets.
	Touch to close this screen and return to the selected gauge.

Selecting and Switching Gauge Sets

1. Touch the instrument screen.
   Interactive items appear on the screen.
2. Select .
3. Select a gauge set, such as **Vessel** or **Engines**.
   TIP: You can drag the gauge-set icons left and right to view additional gauge sets.

Viewing Different Gauges in a Set

You can quickly cycle through the different gauges in a set

1. When viewing a gauge set, touch the instrument screen.
   Interactive items appear on the screen.
2. Select and to view a different gauge in the set.
   TIP: You can also swipe left and right on the screen to view different gauges in the set.

Changing a Gauge Set

You can add or remove gauges from a gauge set, and you can change the gauges in each gauge set.

1. Select the gauge set you want to change.
2. Touch the screen and select ••• > **Edit Gauge Set**.
3. If needed, select and to select the gauge you want to change.
4. Select an option:
   - To change the name and symbol that identifies the gauge set, select **Name & Symbol**.
   - To adjust the layout of the data presented on the selected gauge, select **Change Layout**.
   - To add a new gauge to the gauge set, select **Add Page**.
   - To remove the selected gauge from the gauge set, select **Remove Page**.
   - To adjust the position of the select gauge in the gauge set, select **Move Page Left** or **Move Page Right**.

- To revert any changes you've made to the gauge set, select **Reset Gauge Set**.

5 Adjust the values or content as needed.

Creating a New Gauge Set

1 Touch the instrument screen and select .
2 Drag the icons to the left until you reach the end of the gauge-set list and select **Add Gauge Set**.
3 For the first gauge in the new gauge set, select how you want the gauge to appear.
You first select the category on the right side of the screen, then the layout option on the left.
This creates the new gauge set and opens a screen where you can further customize it.
4 Select any item in the new gauge you want to customize, select **Replace Data**, and select the new data you want to show on the gauge.
5 Repeat the previous step until the new gauge meets your needs.
6 If you want to add additional gauges to the new gauge set, select **Add Page** and repeat the procedure starting from step 3.
7 Select **Name & Symbol** to provide a name and a representative icon for the new gauge set.

Rearranging Gauge Sets

You can change the location of the gauge sets on the screen.

1 Touch the instrument screen.
Interactive items appear on the screen.
2 Select .
3 Touch and hold any gauge set and select **Rearrange**.
The gauge sets are shown with ⟷ over them, indicating that they are ready to be moved.
4 Touch a gauge you want to move.
The gauge you want to move is highlighted, and the other gauges are shaded in blue with a dashed outline.
5 Touch a shaded gauge set in the location where you want to move the gauge set you selected in the previous step.
Touching the left side of the square places the selected gauge set before it in the order, and touching the right side of the square places the selected gauge set after it in the order.
6 Repeat steps 4 and 5 for other gauge sets you want to rearrange.

Deleting and Hiding Gauge Sets

You can remove or hide a gauge set if you do not need it.

1 Touch the instrument screen.
Interactive items appear on the screen.
2 Select .
3 Touch and hold the gauge set you want to hide or delete, and select an option:
- To delete the gauge set from the instrument, select **Delete Gauge Set**.
- To hide the gauge set from the list, select **Hide**

Deleted gauge sets are permanently removed from the instrument. Hidden gauge sets can be shown again later if needed.

Showing Hidden Gauge Sets

If you have hidden any gauge sets, you can show them again if needed.

1 Touch the instrument screen.
Interactive items appear on the screen.
2 Select .
3 Select to show all hidden gauge sets.
4 Touch and hold a hidden gauge set and select **Unhide**.
5 Repeat this step for other hidden gauge sets you want to show.

Communication with Wireless Devices

This instrument can connect with specific wireless devices.

Connecting wireless devices allows you to receive sensor data, control the device using a compatible Garmin® remote control, view boat data on a compatible Garmin watch, and update the device using the ActiveCaptain® app.

Wireless Wind Sensor

Connecting a Wireless Wind Sensor to the Instrument

You can view data from a compatible wireless wind sensor on the GMI™ 40 marine instrument.

1. Select ⚙ > **Communications** > **Wireless Devices**.
2. Select the wind sensor.
3. Select **Enable**.

   The instrument begins searching for and connecting to the wireless sensor.

To view data from the sensor, add the data to a data field or gauge.

Adjusting the Wind Sensor Orientation

You should adjust this setting if the sensor does not face the front of the boat, exactly parallel to the center line.

The opening where the cable connects to the pole indicates the front of the sensor.

1. Estimate the angle, in degrees clockwise around the mast, by which the sensor points away from the center of the front of the boat:
   - If the sensor is facing starboard, the angle should be between 1 and 180 degrees.
   - If the sensor is facing port, the angle should be between -1 and -180 degrees.
2. Select ⚙ > **Communications** > **Wireless Devices**.
3. Select the wind sensor.
4. Select **Wind Angle Offset**.
5. Enter the angle observed in step 1.
6. Select **Done**.

Pairing a GRID™ 20 Device with the Instrument from the Instrument

Before you can pair the GRID 20 device with the GMI™ 40 instrument to make the data connection, you must supply power using batteries, the included power cable, or a NMEA 2000® network connection.

NOTE: This procedure is necessary only if you plan to use a GRID 20 device with only this GMI 40 instrument. If the instrument is connected to a Garmin BlueNet™ network or a Garmin® Marine Network, you can include the insturment in a station that is controlled by a GRID 20 device.

1. Select ⚙ > **System** > **Station Information** > **Input Device Pairing** > **GRID™ Pairing** > **Add**.
2. On the GRID 20 device, press ◀ and ▶ until the remote control beeps three times.

Wireless Remote Control

These steps are not applicable to the GRID™ remote input devices (*Pairing a GRID™ 20 Device with the Instrument from the Instrument*, page 8).

Pairing the Wireless Remote Control

Before you can use the wireless remote control with a GMI™ 40 instrument, you must pair the remote with the instrument.

You can connect a single remote to multiple devices, and then press the pairing key to switch between the devices.

1. Select ⚙ > **Communications** > **Wireless Devices** > **Wireless Remotes** > **GPSMAP® Remote**.
2. Select **New Connection**.
3. Follow the on-screen instructions.

Turning On and Off the Remote Backlight

Turning off the remote backlight can significantly increase the battery life.

1. On the chartplotter or instrument, select ⚙ > **Communications** > **Wireless Devices** > **Wireless Remotes** > **GPSMAP® Remote** > **Backlight**.

2 Follow the on-screen instructions.

Disconnecting the Remote Control from All Devices

1 On the chartplotter or instrument, select ⚙ > **Communications** > **Wireless Devices** > **Wireless Remotes** > **GPSMAP® Remote** > **Disconnect All**.
2 Follow the on-screen instructions.

Viewing Boat Data on a Garmin® Watch

You can connect a compatible Garmin watch to view data from the GMI™ 40 marine instrument.

For more information, see the owner's manual for your compatible Garmin watch.

1 Bring the Garmin watch within range (3 m) of the instrument.
2 From the watch face, select ◯ > **Boat Data** > ◯.

NOTE: If you have already connected the watch to a chartplotter or other instrument, and would like to connect to a different chartplotter, open the Boat Data screen, hold UP, and select Pair New.

3 On the instrument, select ⚙ > **Communications** > **Wireless Devices** > **Wearables** > **Boat Data** > **Enable Connections** > **New Connection**.

The chartplotter begins searching for and connecting to the watch.

After the devices are paired, they connect automatically when they are turned on and within range.

Warnings

When you select ••• or ⚙, ⚠ is shown along the bottom of the screen.

Based on the status of active warnings, this indicator changes color to convey urgency. If you have more than one warning to review, it prioritizes the highest-severity warning.

Color	Severity
Red	Hazards that require immediate action to avoid severe personal injury or death
Yellow	Hazards or unsafe practices which could result in minor personal injury or product or property damage
Gray	There are no active warnings.

TIP: You can touch the warning icon to view a list of active warnings.

Viewing Alarm and Warning History

1 Select ⌂ > ⚙ > **Alarm History**.

TIP: If there is an active warning, you can select ⚠ the warning to view the Alarm History screen.

2 If necessary, select an item in the list.

3 Select **Review**.

Sorting and Filtering Alarms and Warnings

1 From the **Alarm History** screen, select **Sort/Filter**.

2 Select an option to sort or filter the message list.

Saving Alarms and Warnings to a Memory Card

You can save the alarm and warning history to a memory card in a chartplotter connected to the same network as this device.

1 If necessary, insert a memory card into a card slot on a chartplotter connected to the same network.

2 From the **Alarm History** screen, select **Save to Card**.

Clearing the Alarm and Warning History

From the **Alarm History** screen select **Clear Alarm History**.

Device Configuration

You should configure the device as needed for your vessel and needs.

To access the configuration settings, touch the screen then select > .

System: View and configure system-specific settings such as sounds and device-power behavior.

Preferences: Set system preferences such as language and unit types.

Communications: Review and set data communication settings such as NMEA 2000® device information and Wi-Fi® network settings.

Alarms: Set vairous alerts and alarms.

My Vessel: View and configure boat-specific settings.

Regulatory Information: View regulatory compliance information.

Alarm History: Review information about historical alarms provided by the device and network.

Garmin ActiveCaptain: Set up and connect the ActiveCaptain® app for software updates (*Getting Started with the ActiveCaptain® App*, page 17).

System Settings

Select > **System**.

Sounds and Display: Adjusts the display settings and the audio settings (if available).

Satellite Positioning: Provides information about the GPS satellites and settings.

System Information: Provides information about the devices on the network and the software version.

Station Information: Adjusts the setup of the station.

Auto Power Up: Controls which devices turn on automatically when power is applied.

Auto Power Off: Automatically turns off the system after it has been asleep for the selected length of time.

Simulator: Turns the simulator on or off and allows you to set the time, date, speed, and simulated location.

Sounds and Display Settings

Select > **System** > **Sounds and Display**.

Beeper: Turns on and off the tone that sounds for alarms and selections.

Backlight: Sets the backlight brightness. You can select the Auto option to adjust the backlight brightness automatically based on the ambient light.

NOTE: This option is available only when the device is connected to a network with a chartplotter that has an ambient light sensor.

Backlight Sync: Synchronizes the backlight brightness of other chartplotters in the station.

Color Mode: Sets the device to display day or night colors. You can select the Auto option to allow the device to set day or night colors automatically based on the time of day.

Color Theme: Sets the highlight and accent color used on most screens.

Startup Image: Sets the image that appears when you turn on the device.

Startup Layout: Sets the layout that appears when you turn on the device.

Screen Lock: Sets the anti-theft feature that requires a security PIN (Personal Identification Number) to prevent unauthorized use of the device (*Enabling Screen Lock*, page 4).

Satellite Positioning (GPS) Settings

Select > **System** > **Satellite Positioning**.

Source: Allows you to select the preferred source for GPS data.

Speed Filter: Averages the speed of your vessel over a short period of time for smoother speed values.

WAAS/EGNOS: Turns on or off WAAS data (in North America) or EGNOS data (in Europe), which can provide more-accurate GPS position information. When using WAAS or EGNOS data, the device may take longer to acquire satellites.

Positioning Mode > GPS Only: The GPS source uses only GPS satellites for position data.

Positioning Mode > GPS and GLONASS: The GPS source uses both GPS satellites and GLONASS (Russia satellite system) for position data. When the system is used in situations with poor sky visibility, GLONASS data can be used in combination with GPS to provide more accurate position information.

Station Settings

Select > **System** > **Station Information**.

Change Station: Sets the entire station to a new set of defaults based on the location of this station. You can also select to use this display as a stand-alone, individual display, instead of grouping it with other displays to make a station.

Input Device Pairing: Allows you to pair a GRID™ remote input device or other compatible input device with this station.

Display Order: Sets the order of the displays, which is important when using a GRID remote input device.

Reset Layouts: Resets the layouts in this station to the factory default settings.

Reset Station Settings: Resets all station settings to on all connected devices in the station to the factory default settings, and requires initial station setup.

Viewing System Software Information

You can view the software version and the unit ID number. You may need this information to update the system software or for troubleshooting purposes.

Select ⚙ > **System** > **System Information** > **Software Information**.

Viewing the Event Log

The event log shows a list of system events.

1. Select ⚙ > **System** > **System Information** > **Event Log**.
2. If necessary, select an event in the list, and select **Review** to view more information about the event.

Sorting and Filtering Events

1. From the **Event Log**, select **Sort By**.
2. Select an option to sort or filter the event log.

Saving Events to a Memory Card

1. Insert a memory card into the card slot.
2. From the **Event Log**, select **Save to Card**.

Clearing All of the Events From the Event Log

From the **Event Log**, select **Clear Event Log**.

Viewing E-label Regulatory and Compliance Information

The label for this device is provided electronically. The e-label may provide regulatory information, such as identification numbers provided by the FCC or regional compliance markings, as well as applicable product and licensing information. Not available on all models.

1. Select ⚙.
2. Select **System**.
3. Select **Regulatory Information**.

Preferences Settings

Select ⚙ > **Preferences**.

Units: Sets units of measure.

Language: Sets the on-screen text language.

Speed Sources: Sets the source for the speed readings.

Filters: Smooths out the values shown in the data fields, which can decrease the noise or show longer term trends. Increasing the filter setting increases the smoothing and decreasing it reduces the smoothing. A filter setting of 0 will disable the filter and the value shown will be the raw value from the source. You can also synchronize these settings across all devices that enable the Sync Filters setting.

Keyboard Layout: Arranges the keys on the on-screen keyboard.

Units Settings

Select ⚙ > **Preferences** > **Units**.

System Units: Sets the unit format for the device. For example, **Custom** > **Depth** > **Fathoms** sets the unit format for depth to Fathoms.

North Reference: Sets the direction references used in calculating heading information. True sets geographic north as the north reference. Grid sets grid north as the north reference (000º). Magnetic sets the magnetic north as the north reference.

Variance: Sets the magnetic declination, the angle between magnetic north and true north, for your present location.

Time: Sets the time format, time zone, and daylight saving time.

Communications Settings

Viewing Connected Devices

You can view lists of the connected devices on the vessel including which chartplotter a device is connected to or paired with.

1. Select ⚙ > **Communications**.
2. Select a network.
3. Select **Device List**.

   A list of network devices appears. If a device is connected to or paired with a specific chartplotter, the name of the chartplotter is shown along with the device name.

   NOTE: Some devices included in the NMEA 2000® device list may be connected to a chartplotter at another station on the vessel. You can select **Related To:** to see more information about which chartplotter the device is connected to.

NMEA 2000® Settings

Select ⚙ > **Communications** > **NMEA 2000 Setup**.

Device List: Displays the devices connected to the network and allows you to set options for some transducers connected using the NMEA 2000 network.

Label Devices: Changes the labels for available connected devices.

Naming Devices and Sensors on the Network

You can name devices and sensors connected to the Garmin® Marine Network and the NMEA 2000® network.

1. Select ⚙ > **Communications**.
2. Select **Marine Network** or **NMEA 2000 Setup** > **Device List**.
3. Select a device from the list on the left.
4. Select **Change Name**.
5. Enter the name, and select **Done**.

Viewing Windlass Information

If you have connected a compatible windlass sensor or sensors to the same NMEA 2000® network as the chartplotter, you can monitor rode deployment information and receive alerts.

1. Select an option:
   - On any screen with a data field, select ••• > **Edit Overlays**, and select the data field where you want to show windlass information.
   - On a gauges screen, select ••• > **Edit Gauge Set**, select the gauge where you want to show windlass information, and select **Replace Data**.
2. Select **Vessel**, and select the windlass rode information you want to view in the data field or gauge.

   NOTE: Windlass information is not compatible with all gauge types.

TIP: You can configure the notification settings so you receive alerts from the windlass sensor (*Network Alarms*, page 14).

⚠ CAUTION

The Beeper setting must be turned on to make alarms audible (*Sounds and Display Settings*, page 11). Failure to set audible alarms could lead to injury or property damage.

Resetting Rode Information

If the rode information shown from your windlass sensor does not appear accurate, you can reset the data to help calibrate it.

1. Adjust the anchor so it is in a position you want to set as zero.
2. From a screen showing rode information in a data field, press and hold the data field you want to reset.
3. Select **Reset Rode Counter**.

The rode information resets to zero.

The Garmin BlueNet™ Network and the Legacy Garmin® Marine Network

The Garmin BlueNet network allows you to share data from Garmin peripheral devices with chartplotters quickly and easily. You can connect compatible devices using Garmin BlueNet technology to receive data from and share data with other connected devices and chartplotters.

There are two types of network technology used by Garmin marine devices. The legacy Garmin Marine Network technology has larger connectors and has been in use for many years. The newer Garmin BlueNet network technology has smaller connectors and is capable of higher speeds than the previous network technology. You can connect Garmin Marine Network devices to Garmin BlueNet devices to share data with one another when the network is structured properly. For more information, see garmin.com/manuals/bluenet.

You can view all of the devices connected to the Garmin BlueNet network and add or change a custom name for each device.

Select ⚙ > **Communications** > **BlueNet™ Network** or **Marine Network**.

Setting Alarms

⚠ CAUTION

The Beeper setting must be turned on to make alarms audible (*Sounds and Display Settings*, page 11). Failure to set audible alarms could lead to injury or property damage.

System Alarms

Select ⚙ > **Alarms** > **System**.

Clock: Sets an alarm clock.

Unit Voltage: Sets an alarm to sound when the battery reaches a specified low voltage.

Setting Wind Alarms

You can set alarms to sound when specific wind speed measurements reach a specified value.

1. Select ⚙ > **Alarms** > **Wind**.
2. Select an option for the type of wind speed for which you want to receive alerts:
   - Select **Apparent Wind Speed** when measuring the speed of the wind with respect to the velocity of the vessel.
   - Select **True Wind Speed** when measuring the actual speed of the wind in relation to a stationary observer on the ground.
3. Select an option:
   - Select **High Wind Speed** to be alerted when the measured wind speed rises above the specified value.
   - Select **Low Wind Speed** to be alerted when the measured wind speed falls below the specified value.
4. Enter the speed value to trigger the alert.

Sonar Alarms

⚠ WARNING

The sonar alarms feature is a tool for situational awareness only and may not prevent grounding in all circumstances. It is your obligation to ensure safe operation of the vessel.

⚠ CAUTION

The Beeper setting must be turned on to make alarms audible (*Sounds and Display Settings*, page 11). Failure to set audible alarms could lead to injury or property damage.

NOTE: Sonar alarms are available only when sonar data is provided to the instrument. Sonar data can be provided by a sonar module or compatible chartplotter on the same Garmin BlueNet™ network or Garmin® marine network, or it can be provided by a depth or temperature sensor on the NMEA 2000® network.

Not all options are available on all transducers.

Select ⚙ > **Alarms** > **Sonar**.

Shallow Water: Sets an alarm to sound when the depth is less than the specified value.

Deep Water: Sets an alarm to sound when the depth is greater than the specified value.

Water Temp.: Sets an alarm to sound when the transducer reports a temperature that is 2°F (1.1°C) above or below the specified temperature.

Network Alarms

Select ⚙ > **Alarms** > **Network**.

NMEA 2000 Alerts: Sets alarms for connected NMEA 2000® devices.

Windlass: Sets alarms for a connected windlass sensor.

Setting the Fuel Alarm

⚠ CAUTION

The Beeper setting must be turned on to make alarms audible (*Sounds and Display Settings*, page 11). Failure to set audible alarms could lead to injury or property damage.

Before you can set a fuel level alarm, you must connect a compatible fuel flow sensor to the chartplotter.

You can set an alarm to sound when the total amount of remaining onboard fuel reaches the level you specify.

1 Select ⚙ > **Alarms** > **Fuel** > **Total Fuel Onboard** > **On**.

2 Enter the remaining amount of fuel that triggers the alarm, and select **Done**.

My Vessel Settings

NOTE: Some settings and options require additional charts or hardware.

Select ⚙ > **My Vessel**.

Depth and Anchoring: Sets anchor and depth information.

The Anchor Height value is the height of the anchor above the waterline. The Anchor Scope value is the ratio of the length of anchor rode in use to the vertical distance from the bow of the vessel to the bottom of the water. These anchor settings are used to calculate the Target Anchor Rode date field.

Temp. Offset: Allows you to set an offset value to compensate for the water temperature reading from a connected water-temperature sensor or a temperature-capable transducer (*Setting the Water Temperature Offset*, page 15).

Calibrate Water Speed: Calibrates the speed-sensing transducer or sensor (*Calibrating a Water-Speed Device*, page 15).

Fuel: Sets the combined fuel capacity and fuel remaining in the fuel tanks on your vessel (*Fuel Settings*, page 16).

Vessel Type: Enables some chartplotter features based on the boat type.

Polar Table: Enables polar table data, when the vessel type is not a powerboat.

Hull ID Number: Allows you to enter the Hull Identification Number (HIN).The HIN might be permanently affixed to the upper starboard side of the transom or outboard side.

Setting the Water Temperature Offset

The temperature offset compensates for the temperature reading from a temperature sensor or temperature-capable transducer.

1 Measure the water temperature using the temperature sensor or temperature-capable transducer that is connected to the network.

2 Measure the water temperature using a different temperature sensor or a thermometer that is known to be accurate.

3 Subtract the water temperature measured in step 1 from the water temperature measured in step 2.

This value is the temperature offset. Enter this value in step 5 as a positive number if the sensor measures the water temperature as being colder than it actually is. Enter this value in step 5 as a negative number if the sensor measures the water temperature as being warmer than it actually is.

4 Complete an action:

- If the sensor or transducer is connected to the chartplotter or a sonar module, select ⚙ > **My Vessel** > **Temp. Offset**.
- If the sensor or transducer is connected to the NMEA 2000® network, select ⚙ > **Communications** > **NMEA 2000 Setup** > **Device List**, select the transducer, and select **Review** > **Temp. Offset**.

5 Enter the temperature offset value calculated in step 3.

Calibrating a Water-Speed Device

If you have a speed sensor or a speed-sensing transducer connected, you can calibrate that speed-sensing device to improve the accuracy of water-speed data displayed by the chartplotter.

1 Complete an action:

- If the sensor or transducer is connected to the chartplotter or a sonar module, select ⚙ > **My Vessel** > **Calibrate Water Speed**.

- If the sensor or transducer is connected to the NMEA 2000® network, select ⚙ > **Communications** > **NMEA 2000 Setup** > **Device List**, select the transducer, and select **Review** > **Calibrate Water Speed**.

2 Follow the on-screen instructions.

If the boat is not moving fast enough or the speed sensor is not registering a speed, a message appears.

3 Select **OK**, and safely increase the boat speed.

4 If the message appears again, stop the boat, and ensure the speed-sensor wheel is not stuck.

5 If the wheel turns freely, check the cable connections.

6 If you continue to get the message, contact Garmin® product support.

Fuel Settings

Select ⚙ > **My Vessel** > **Fuel**.

Fuel Remaining: Allows you to use fuel flow sensors or fuel tank level sensors to monitor the fuel remaining on the vessel. The Fuel Flow option uses fuel flow sensors. The Fuel Tank option uses fuel tank level sensors.

Fuel Tank Capacity: Allows you to enter the fuel capacity of each fuel tank onboard. This setting is available when the Fuel Remaining setting is set to the Fuel Tank option. The chartplotter uses information from the tank level sensors, so you do not need to do manually enter fuel information after you fill up the tanks.

Fuel Capacity: Allows you to enter the total fuel capacity of all fuel tanks onboard. This setting is available when the Fuel Remaining setting is set to the Fuel Flow option. After you fill up your tanks with fuel, you must enter fuel information manually using one of the options below.

- If you have filled up all the fuel tanks on the vessel, select Fill Up All Tanks. The fuel level is set to maximum capacity.
- If you have added less than a full tank of fuel, select Add Fuel to Boat, and enter the amount added.
- To specify the total fuel in the vessel tanks, select Set Total Fuel Onboard, and enter the total amount of fuel in the tanks.

Fuel Economy: Determines how the fuel economy data is shown in data fields and other locations in the chartplotter.

- To show fuel economy data as it is received directly from the engine, select Instant. Not all engines support this feature.
- To allow the chartplotter to calculate the fuel economy data based on fuel-rate measurements, select Internal.
- To allow the chartplotter to either use data received from the engine or to calculate the data if it is not received by the engine, select Auto. This is the default setting.

NOTE: Garmin® is not responsible for the accuracy of fuel economy data provided by an engine.

More Information

ActiveCaptain® App

You can use the Wi-Fi® feature on this device to connect to the ActiveCaptain app for software updates. Applying an update to this device using the ActiveCaptain app can also update applicable devices connected to the same NMEA 2000® network.

If this device is connected to a Garmin BlueNet™ network or Garmin® Marine Network with a chartplotter, you should connect the ActiveCaptain app to the chartplotter instead of this device. Using the app on a chartplotter provides greater functionality, and this device is updated along with all other connected devices during a network update, so an individual software update for only this device is not necessary.

NOTE: If you have multiple GMI™ 40 instruments on the vessel that are not connected to a Garmin BlueNet network or Garmin Marine Network with a chartplotter, you must update each instrument individually. Updating one instrument does not update other instruments, even if they are connected to the same NMEA 2000 network.

Getting Started with the ActiveCaptain® App

You can connect a mobile device to the GMI™ 40 device using the ActiveCaptain app. The app provides a quick and easy way for you update the software on your GMI 40 device.

1. From the GMI 40 device, select ⚙ > **Garmin ActiveCaptain**.
2. From the **Garmin ActiveCaptain** page, select **Wi-Fi Network** > **Wi-Fi** > **On**.
3. Enter a name and password for this network.
4. From the application store on your mobile device, install and open the ActiveCaptain app.

   TIP: You can scan this QR code using your mobile device to download the app.
5. Bring the mobile device within 32 m (105 ft.) of the GMI 40 device.
6. From your mobile device settings, open the Wi-Fi® connections page, and connect to the GMI 40 device, using the name and password you entered in step 3.

Updating Software with the ActiveCaptain® App

If your device has Wi-Fi® technology, you can use the ActiveCaptain app to download and install the latest software updates for your device.

NOTICE

Software updates may require the app to download large files. Regular data limits or charges from your Internet service provider apply. Contact your Internet service provider for more information about data limits or charges.

The installation process can take several minutes.

1. Connect the mobile device to the GMI™ 40 device (*Getting Started with the ActiveCaptain® App*, page 17).
2. When a software update is available and you have internet access on your mobile device, select **Software Updates** > **Download**.

   The ActiveCaptain app downloads the update to the mobile device. When you reconnect the app to the GMI 40 device, the update is transferred to the device. After the transfer is complete, you are prompted to install the update.
3. When you are prompted by the GMI 40 device, select an option to install the update.
   - To update the software immediately, select **OK**.
   - To delay the update, select **Cancel**. When you are ready to install the update, select **Garmin ActiveCaptain** > **Software Updates** > **Install Now**.

   For the best experience, you should keep the software on your device up to date. Software updates provide changes and improvements to privacy, security, and features.

Garmin® Support Center

Go to support.garmin.com for help and information, such as product manuals, frequently asked questions, videos, software updates, and customer support.

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