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Garmin 010-02134-00

Garmin OnDeck Marine System (Model 010-02134-00) User Manual

Fully Integrated Remote Connectivity Solution for Boat Monitoring and Control

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Garmin OnDeck Marine System, Model 010-02134-00. The OnDeck system is a fully integrated remote connectivity solution designed to allow you to track, monitor, and control various functions on your boat from virtually anywhere. It utilizes the ActiveCaptain app to provide real-time data and alerts regarding your vessel's status.

2. Product Overview

2.1. Components Included

The Garmin OnDeck Marine System includes the following components:

- OnDeck GTB 10 Hub
- Door sensor
- Temperature sensor
- Shore power sensor
- Relay switch
- Power cable
- In/out data cable (19-pin)
- Marine network cable
- NMEA 2000® drop cable
- NMEA 2000 T-connector
- Documentation

2.2. Key Features

- Remote connectivity with configurable alarms for security and movement alerts.
- Internal GPS sensor for custom geo-fencing capabilities.

- Full integration with marine electronics (MFD via Garmin Marine Network, engines, NMEA 2000 sensors).
- Ability to track, monitor, and control up to 5 switches via the ActiveCaptain app (subscription required).
- Secure collection and cloud storage of vessel data for 30 days using the GTB 10 OnDeck Hub.
- Monitoring of battery status, bilge activity, shore power, and temperature.
- Unauthorized boat entry detection via door sensors.
- Up to 48-hour internal backup battery for continued access after boat battery depletion or power disconnection.

2.3. Product Visuals



Figure 2.1: The Garmin OnDeck GTB 10 Hub, showing its various ports and antennas for connectivity.



Figure 2.2: Rear view of the Garmin OnDeck GTB 10 Hub, highlighting the connection ports for power, NMEA 2000, and other sensors.



Figure 2.3: Screenshot of the ActiveCaptain app interface, displaying options for "My Marine Devices", "Sensors", "Switches", and "Tracking & Security" during setup.

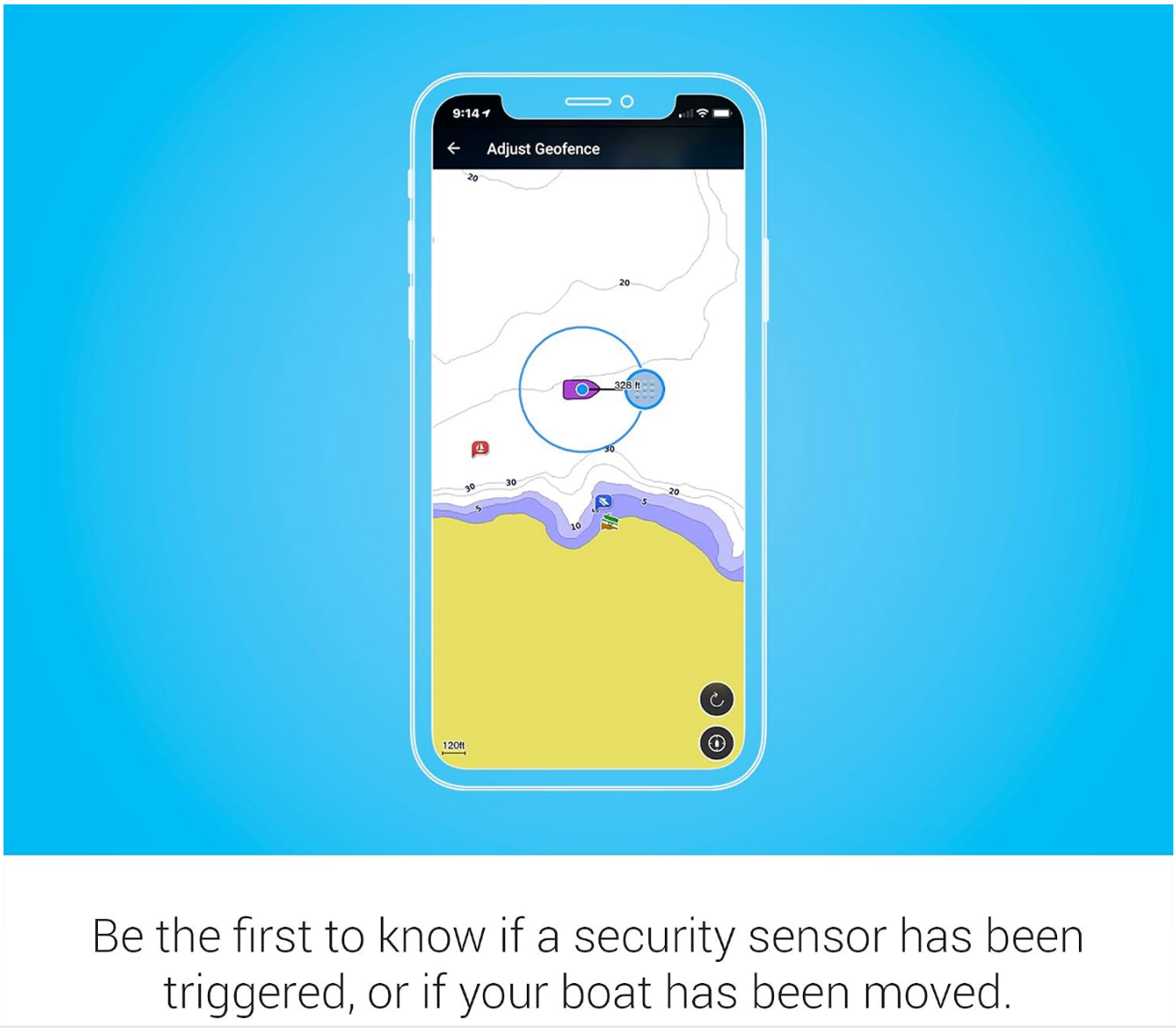


Figure 2.4: ActiveCaptain app displaying real-time sensor data, including security status, shore power connection, bilge pump activity, battery voltage, GPS heading, vessel odometer, current speed, and temperature.

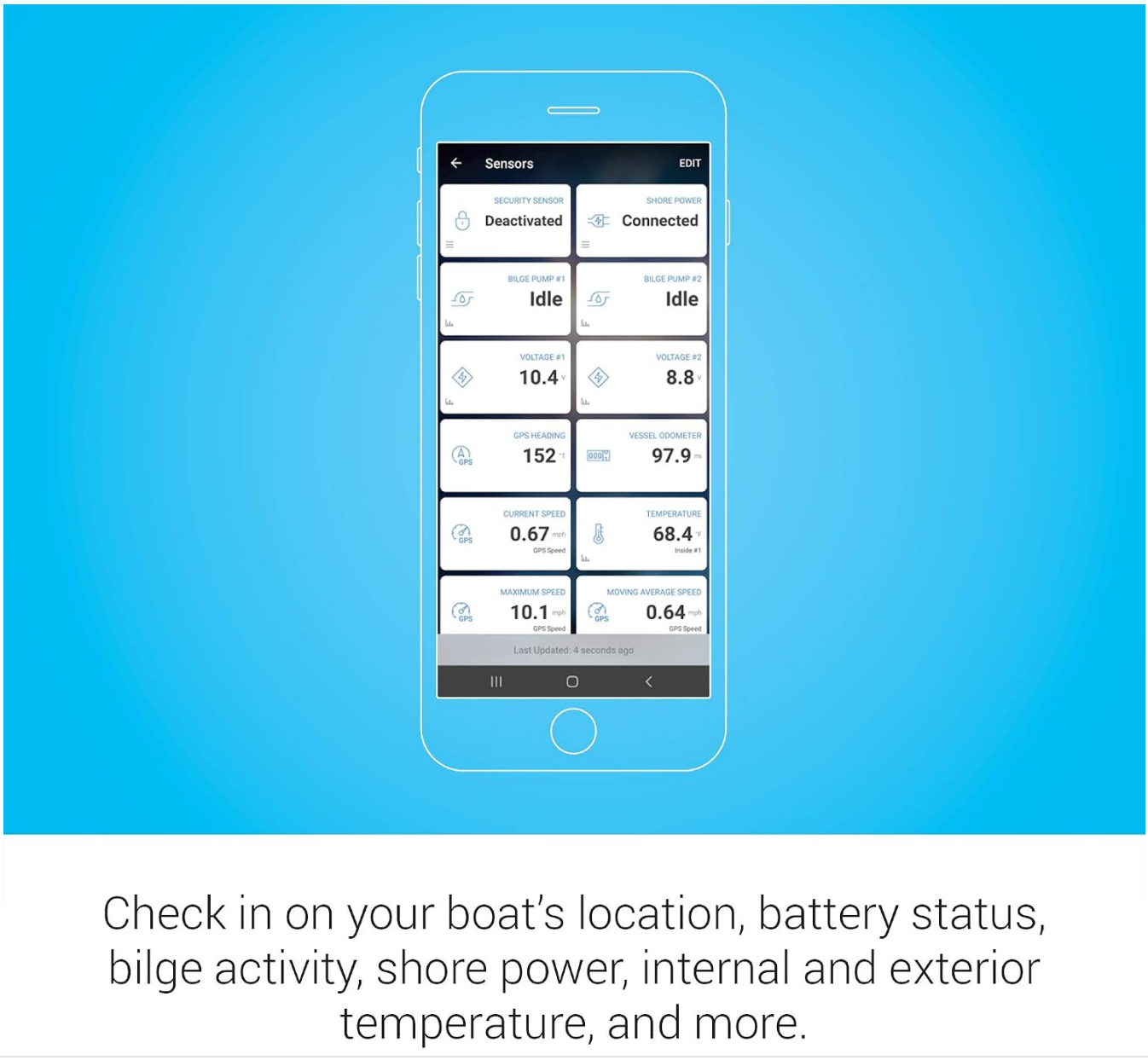


Figure 2.5: ActiveCaptain app interface for controlling boat switches, such as refrigerator, master power, cabin lights, deck lights, and fan.

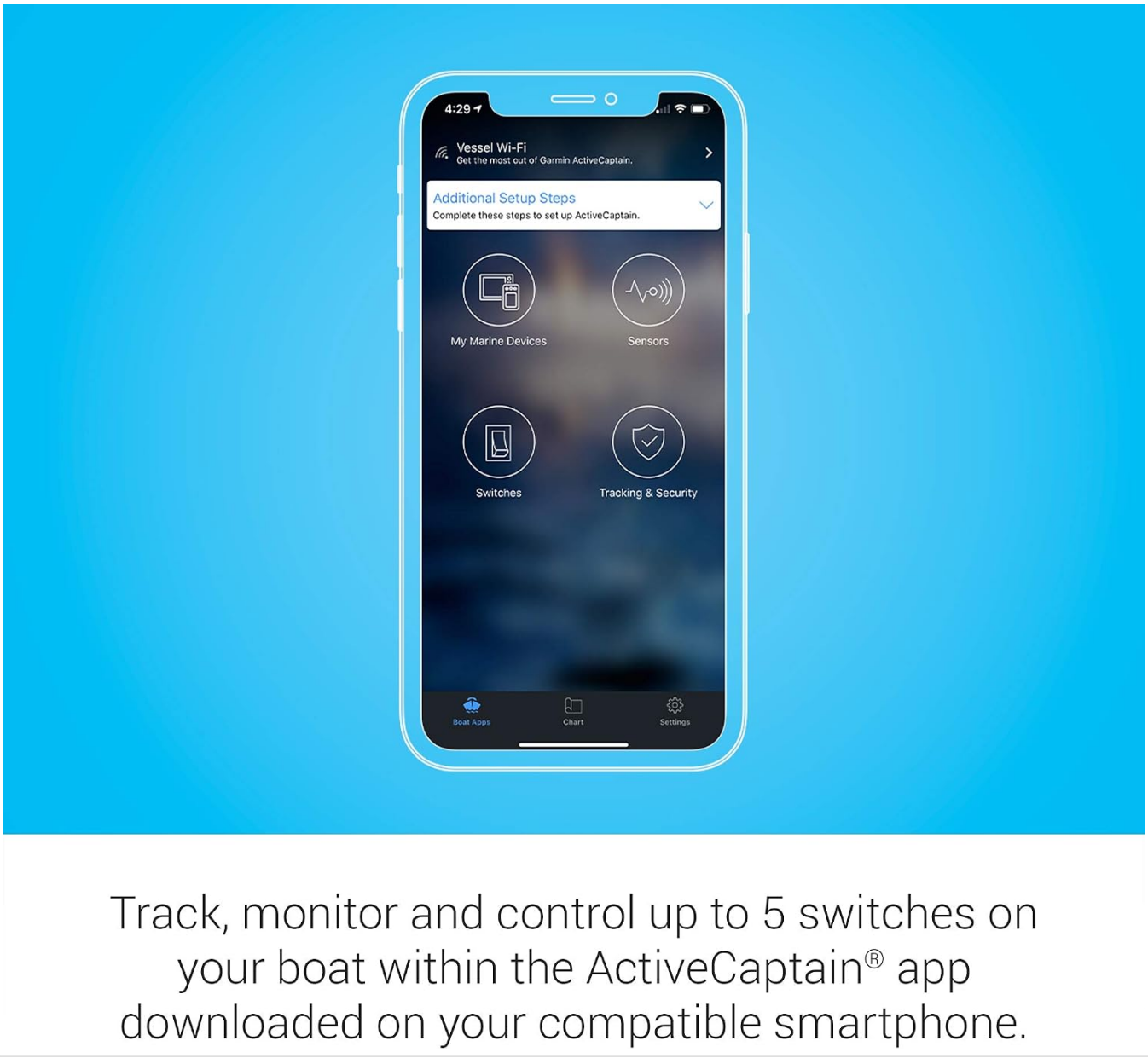


Figure 2.6: ActiveCaptain app displaying a map with an adjustable geofence, used for tracking boat movement and setting alerts.

2.4. Product Video

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Video 2.1: An official overview of the Garmin OnDeck system, demonstrating its features and benefits for remote boat monitoring and control. This video highlights how the system integrates with the ActiveCaptain app to provide real-time updates and control capabilities.

3. Setup

Proper installation and setup are crucial for the optimal performance of your OnDeck system. It is recommended to consult a qualified marine electronics installer for complex installations.

3.1. Installation of the GTB 10 Hub

1. **Mounting:** Select a dry, secure location on your boat for the GTB 10 Hub, away from direct sunlight and excessive heat. Ensure adequate ventilation.
2. **Power Connection:** Connect the power cable to a 12V DC power source on your boat. The system includes a 48-hour internal backup battery, but a stable primary power source is essential.
3. **Antenna Installation:** Install the included antennas for optimal cellular and GPS signal reception. Ensure they have a clear view of the sky.

3.2. Sensor Installation

- **Door Sensor:** Install the door sensor on entry points to detect unauthorized access.
- **Temperature Sensor:** Place the temperature sensor in a location where accurate ambient temperature monitoring is desired.
- **Shore Power Sensor:** Connect the shore power sensor to monitor the status of your boat's shore power connection.
- **Relay Switch:** Integrate the relay switch with up to five desired boat systems (e.g., lights, refrigerator) for remote control.

3.3. ActiveCaptain App Setup

1. **Download App:** Download the Garmin ActiveCaptain app from your device's app store.
2. **Account Creation:** Create a Garmin account or log in to an existing one.
3. **Device Pairing:** Follow the in-app instructions to pair your OnDeck GTB 10 Hub with your ActiveCaptain account. This typically involves connecting to the OnDeck Hub's Wi-Fi network temporarily.
4. **Subscription:** An active subscription plan is required for full functionality. Activate your subscription through the ActiveCaptain app or Garmin website.
5. **Configuration:** Configure sensors, switches, and geo-fencing settings within the app.

Note: Both the OnDeck Hub and your device require 3G/4G network connectivity for remote monitoring and control. Check Garmin's website for coverage information.

4. Operation

The Garmin OnDeck system operates primarily through the ActiveCaptain app, providing a centralized interface for all monitoring and control functions.

4.1. Monitoring Your Boat

- **Dashboard:** The app's main dashboard provides an overview of critical information, including battery status, bilge activity, shore power connection, and temperature.
- **GPS Tracking:** View your boat's current GPS location on a map.
- **Sensor Status:** Access detailed status reports from all connected sensors (e.g., door open/closed, bilge pump cycles).

4.2. Remote Control of Switches

From the ActiveCaptain app, you can remotely control up to five connected switches:

1. Navigate to the "Switches" section within the app.
2. Select the desired switch (e.g., refrigerator, lights, master power).
3. Toggle the switch on or off as needed.

4.3. Alarm Notifications

Configure custom alarm notifications to receive alerts for various events:

- **Security Alerts:** Receive notifications if a door sensor is triggered or if the boat moves outside a defined geo-fence.
- **System Alerts:** Get alerts for low battery voltage, excessive bilge pump activity, or shore power disconnection.
- **Temperature Alerts:** Set thresholds for temperature and receive alerts if they are exceeded.

Note: Ensure your mobile device has notifications enabled for the ActiveCaptain app to receive timely alerts.

5. Maintenance

Regular maintenance ensures the longevity and reliable operation of your Garmin OnDeck system.

- **Cleaning:** Periodically clean the GTB 10 Hub and sensors with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Software Updates:** Regularly check for and install software updates for the OnDeck Hub and ActiveCaptain app. Updates often include performance improvements and new features.
- **Battery Check:** Monitor your boat's primary battery health, as the OnDeck system relies on it. The internal backup battery is for temporary use only.
- **Sensor Inspection:** Periodically inspect all sensors and cables for any signs of wear, corrosion, or damage.

6. Troubleshooting

If you encounter issues with your OnDeck system, refer to the following common troubleshooting steps:

6.1. No Connectivity

- **Check Cellular Coverage:** Ensure both your OnDeck Hub and mobile device are in an area with adequate 3G/4G cellular coverage.
- **Verify Subscription:** Confirm your OnDeck subscription is active and not expired.
- **Power Supply:** Check that the GTB 10 Hub is receiving power from the boat's battery.
- **Antennas:** Ensure antennas are securely connected and have a clear view of the sky.

6.2. Inaccurate Sensor Readings

- **Sensor Placement:** Verify sensors are installed correctly and not obstructed.
- **Cable Connections:** Check all sensor cable connections to the GTB 10 Hub for looseness or corrosion.
- **Calibration:** Some sensors may require calibration through the ActiveCaptain app. Refer to the app's help section.

6.3. Remote Switches Not Responding

- **Relay Connection:** Ensure the relay switch is correctly wired to the desired boat system and the GTB 10 Hub.
- **Power to System:** Verify the system you are trying to control has power.
- **App Configuration:** Confirm the switch is correctly configured and enabled in the ActiveCaptain app.

For further assistance, contact Garmin Support or visit the Garmin website.

7. Specifications

Feature	Detail
Model Number	010-02134-00
Product Dimensions	13.3 x 10.1 x 8.2 inches
Item Weight	1.4 pounds

Connectivity Technologies	Cellular (3G/4G), Wi-Fi
Battery Life (Backup)	Up to 48 hours (internal Lithium Polymer battery)
Human Interface Input	Buttons
Manufacturer	Garmin
Vehicle Service Type	Boat
Map Type	Nautical (via ActiveCaptain app)
Mounting Type	Panel Mount

8. Warranty and Support

For warranty information, please refer to the documentation included with your product or visit the official Garmin website. Garmin provides comprehensive support resources, including FAQs, software updates, and contact information for technical assistance.
Garmin Support: www.garmin.com/support

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