

Copyright© 2008 SeaKey LLC

SeaKey LLC.
7315 Wisconsin Avenue, Suite 1050 East
Bethesda, MD 20814 USA

All rights reserved. Except as expressly provided herein, no part of this manual may be reproduced, copied, transmitted, disseminated, downloaded, or stored in any storage medium, for any purpose without the express prior written consent of SeaKey LLC. SeaKey LLC hereby grants permission to download a single copy of this manual onto a hard drive or other electronic storage medium to be viewed and to print one copy of this manual or of any revision hereto, provided that such electronic or printed copy of this manual must contain the complete text of this copyright notice and provided further that any unauthorized commercial distribution of this manual or any revision hereto is strictly prohibited.

Information in this document is subject to change without notice. SeaKey LLC reserves the right to change or improve its products and to make changes in the content without obligation to notify any person or organization of such changes or improvements. Visit the SeaKey Web site (www.myseakey.com) for current updates and supplemental information concerning the use and operation of this and other SeaKey products.

SeaKey® is a registered trademark of SeaKey LLC and may not be used without the express permission of SeaKey LLC.

References, Illustrations, and Specifications

SeaKey LLC reserves the right to make changes at anytime, without notice, to specifications, models, and procedures. Also, the right to change any specifications or parts at any time without incurring any obligation to equip same models manufactured prior to date of such change. All information, photographs, illustrations, and specifications, contained in these instructions are based on the latest information available at the time of printing. Photographs and illustrations used in this instruction may not depict actual models or equipment. The continuing accuracy of this installation instruction cannot be guaranteed.

IMPORTANT SAFETY NOTICES

Carefully observe the safety alert symbols below for dangers, warnings, and cautions. They alert installers and operators of possible dangers or important information contained in this manual.

Warnings alone do not eliminate hazards, nor are they a substitute for safe boat handling and proper accident prevention measures.

Table of Contents

| | |
|--------------------------------|----|
| Product Overview | 4 |
| On the Boat | 6 |
| Getting Started..... | 9 |
| Navigating Menus | 11 |
| Basic Operations..... | 12 |
| Contact SeaKey | 14 |
| Set Tracking | 15 |
| Set Anti-Theft | 17 |
| Alarm Status..... | 20 |
| Types of Alarm Status..... | 21 |
| Messaging Service..... | 23 |
| Global Positioning System..... | 26 |
| User Settings | 27 |
| Contact Information | 29 |
| Off Season Power Mode..... | 30 |
| Diagnostic Services | 31 |
| Index..... | 33 |




Introduction

Thank you for choosing SeaKey. It is a pleasure to have you as our SeaKey customer. We believe in providing exceptional service and value to our customers. If you have any questions about SeaKey products and or services, please contact us at via the methods listed below.

This manual covers the SeaKey on-board equipment, its operations, features, and important contact information for the SeaKey Response Center. To get the most out of your new SeaKey system, take time to read this manual and learn the operating procedures for your unit.

Symbols Used in this Manual

The following symbols are used in this manual to highlight important information.

| Symbol | Usage |
|---|---|
|  | Warning! If ignored, may cause permanent damage to the on-board equipment or injury to a person. Caution! Failure to comply with a caution may result in failure or damage to the equipment. |
|  | Tip. Indicates information that may be useful for setting up of SeaKey. Experienced or qualified personnel may choose to skip. |
|  | Note: Provides additional information corresponding to the topic that is being discussed. |

Technical Support

For assistance contact SeaKey at the following addresses:

Customer Support

Toll free in North America 1-866-4SEAKEY or 866-473-2539
International: +1 920 490 1869

Website

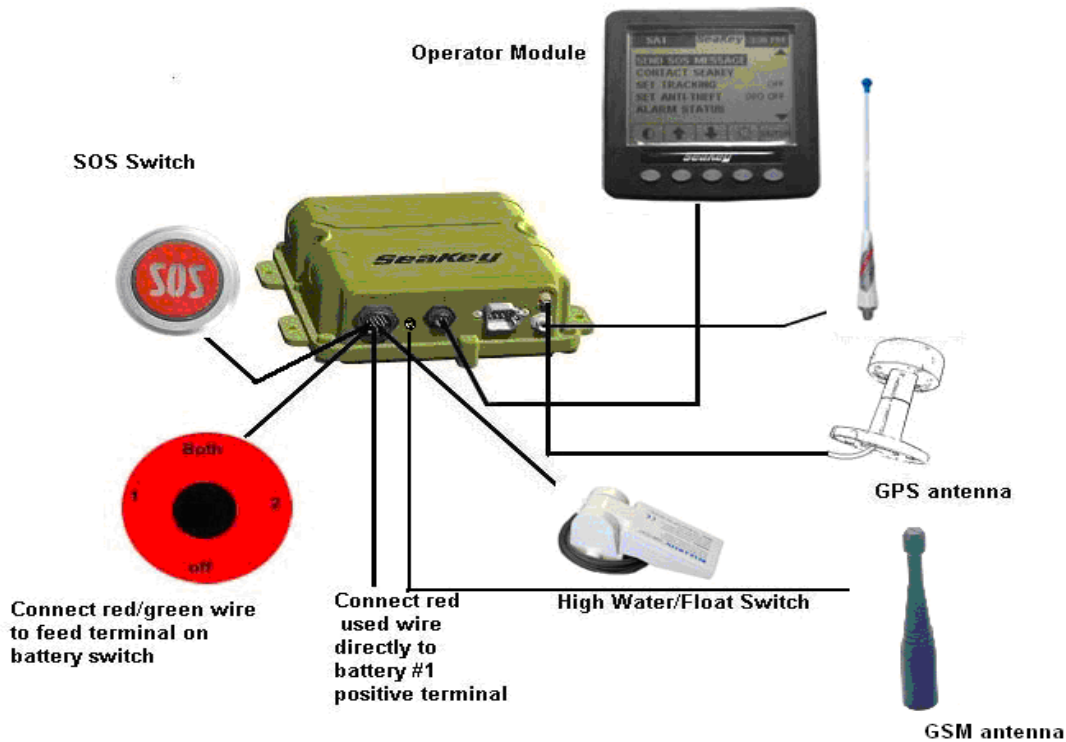
www.myseakey.com

Postal Address

7315 Wisconsin Avenue, Suite 1050 East
Bethesda, MD 20814 USA

Product Overview

SeaKey V2.0 DM is a satellite and GSM based communications system for your boat. Whether the boat is in port, on land, or at sea, SeaKey communicates important boat data along with vital emergency messages via satellite or GSM network to the SeaKey Response Center which is manned 24 hours a day, 365 days a year. Additional features are available from the SeaKey Personal Website where you can monitor vital information on your boat, set anti-theft alarms, and initiate tracking of your boat.



Antenna Connection



The Basics

Based on a two-way satellite **and GSM** communications system and an integrated GPS/GSM receiver, SeaKey offers the following features:

ON BOARD FEATURES

- Send SOS messages
- Request concierge service
- High water monitoring
- Anti-theft monitoring
- Waypoint marking (to view on your SeaKey personal website)
- Tracking (to view on your SeaKey personal website)

SEAKEY WEBSITE FEATURES

- Maintain your boat information
- Keep your emergency contact information current
- Share photos
- Create float plans and automatic notifications of your arrival
- Set your personal preferences for your maps, tracking
- Set email alerts
- Allow guests access to view your photos or follow you progress
- Concierge service, links and more

On the Boat

The components installed on the boat are:

- Marine Satcom Unit (MSU)
- SOS button
- Operator Module
- Satellite antenna
- GPS/GSM antenna
- Float switch (not included with SeaKey kit)

Marine Satcom Unit



The Marine Satcom Unit or MSU is the heart of the system. It is a bright yellow box installed in an inconspicuous location in the boat. This unit includes a satellite communications transceiver, a GPS/GSM receiver, batteries, and a computer that supports the Operator Module. The MSU performs all the communications between the boat and the Response Center.

Operator Module



The Operator Module or OM is an LCD panel usually located at the helm. This unit is your primary interface to the SeaKey system. You will use the menus within the OM to send commands to and receive information from the SeaKey Response Center or the various SeaKey sensors in your boat. The OM can also be used to send emergency messages to the SeaKey Response Center.

SOS Button



In an emergency situation the SOS button provides the quickest way of transmitting a distress message. When you press the SOS button it sends your SeaKey ID and current position to the Response Center via the communications satellites.

The Response Center personnel will contact you, based on the contact information that you would have provided in your personal SeaKey website and may initiate contact with emergency services as appropriate. It is therefore important that you keep this information up to date.



Caution! Use the SOS button, or trigger an SOS message from the Operator Module only in times of emergency. Please don't test this service unnecessarily, as it may alert the emergency services in your area creating an unwanted alarm.

Water Level Monitor



The SeaKey water level monitor is controlled by a float switch located usually about 6 inches above the regular float switch for the bilge pump system. If the water level exceeds the SeaKey float switch, an alert is sent to the SeaKey Response Center.

The Alarm Status screen in the Operator Module will indicate that there is a high water situation. The SeaKey Response Center representative will immediately initiate contact with you or someone you have designated on your personal SeaKey website.

GPS/GSM ANTENNA



The GPS/GSM antenna receives GPS/GSM satellite signals to determine the exact location of the vessel.

Note: It is important that this antenna's view of the sky is not obstructed or the SeaKey system may not function correctly.

GPS Antenna



GSM Antenna

SATELLITE ANTENNA



The Satellite Antenna transmits and receives signals from the communication satellites.



Note: It is important that this antenna's view of the sky is not obstructed or the SeaKey system may not function correctly.

Getting Started

Activation and Product Registration

Before you can use the SeaKey system, you must register it by calling 1-866-4SEAKEY. Only the following features / options are available on the Operator Module prior to activation:

- User Settings
- Contact Information
- Features
- Diagnostic Services

Warning! The features / options that are not available before activation are italicized and the Enter button is disabled when those menu items are highlighted. Until you activate the SeaKey system, you will not be able to use any of the SAFETY CRITICAL FEATURES. The same applies if the system is deactivated.

To activate your SeaKey subscription:

1. Gather all your relevant contact details
2. Have your boat registration with the brand, model, color and Hull Identification Number ready
3. The Satcom ID of your SeaKey unit and **also the Sim Card No.** This unique identifier is found under the **DIAGNOSTICS-ABOUT** menu on your Operator Module
4. Call 1-866-4SEAKEY or 1-920-490-1869

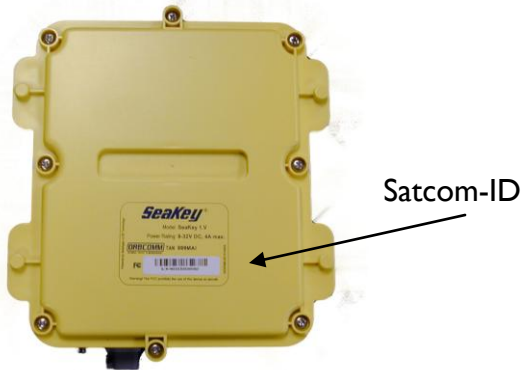
Once activated, these additional features / option are available on the Operators Module:

- Send SOS Message
- Set Anti-Theft
- Global Positioning System
- Features
- Contact SeaKey
- Alarm Status
- User Settings
- Off Season Power Mode
- Set Tracking
- Messaging Service
- Contact Information
- Diagnostic Services

Your SeaKey unit may have come with a pre-paid membership trial period. However, you will always be requested to provide a credit card at the time you register to avoid any service interruptions.

GETTING THE Satcom-ID

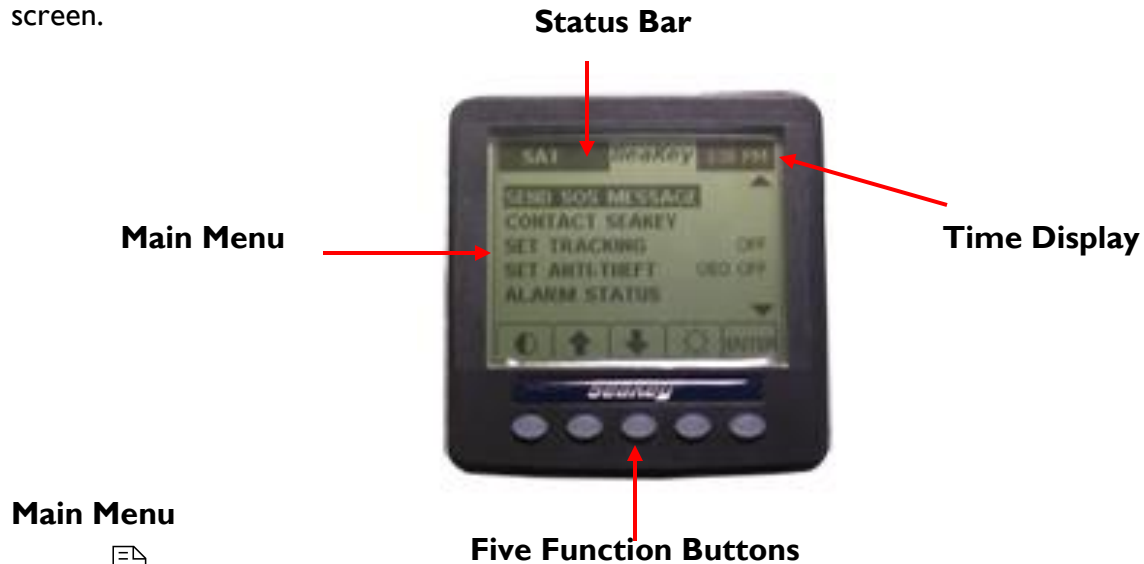
The Satcom-ID is a 12 character identifier, located on the bottom of the MSU. You can also read this ID by accessing the SeaKey Activation Information screen on the Operator Module.



1. On the Main Menu, select **FEATURES**.
2. Press the **ENTER** button. The SeaKey Offers screen displays all the features that it offers.
3. Press the **START** button. The Activate SeaKey screen displays the activation information.
4. Press the **NEXT** button. The SATCOM-ID is displayed in bold letters in the middle of the screen.
5. To return to the previous screen, press the **PREV** button or press the **MENU** button to return to the Main Menu.

Navigating Menus

You will use the Operator Module to interface with and operate the SeaKey system. The main screen of the Operator Module is divided into three sections. The top portion of the screen provides icon-based informational or status messages; the middle section is your main interface; and the bottom portion of the screen controls the corresponding soft buttons below the screen.



Main Menu



Note: Function of each button depends on the Menu item displayed on the screen.

Function Buttons

| | |
|----------------------------------|-----|
| Scroll up or choose menu items | ↑ ↗ |
| Scroll down or choose menu items | ↓ ↘ |
| Adjust contrast | ◐ |
| Adjust brightness | ☀ |

Status Bar Symbols

| | |
|---------------------------------|----------------|
| Disconnected GPS/GSM antenna | GPS |
| No satellite signal | COM |
| Satellite signal OK | COM |
| Alarm triggered, check messages | ! |
| New e-mail message | ✉ |

Basic Operations

Send an SOS message using the SOS button

The quickest way to trigger an SOS message is by using the SOS button. The SOS button will be lit whenever the Operator Module is on, but it will also work when it is not lit. You must press and hold the SOS button for 2-3 seconds until the SOS button blinks. This method of activation is necessary to reduce the probability of accidentally triggering an SOS message. The SOS button will continue to blink as long as there is an active SOS alarm.

Caution! Please note that when an SOS message is triggered using the SOS button only, no additional information about the type of emergency is sent to the SeaKey Response Center. Whenever possible, and if it does not present any danger to yourself or your crew, complete the message by selecting a description for the nature of the emergency using the menus on the Operator Module.

Send an SOS message using the Operator Module

You can send an SOS message from the Operator Module and also provide a brief explanation of type of emergency you are encountering. By knowing the nature of emergency, the SeaKey response center will be better prepared to address your needs.

1. On the Main menu by default **Send SOS Message** is highlighted.
2. Press the **Enter** button. The Confirmation screen is displayed.
3. Press the **Yes** button to confirm that you want to send an SOS. The SOS screen is displayed.
4. Press the navigational arrow buttons to select from the list the type of emergency you are experiencing.
5. Press the **Enter** button to send the message. The message "Contacting SeaKey" is displayed. New messages will be displayed to show the progress in handling the SOS.

Once the SeaKey Response Center receives your message, they will call you on your designated cell or satellite phone numbers. If you are not within cell phone or satellite phone coverage, they may try to contact you using the SeaKey Messaging feature. See "[Messaging Service](#)" on page 22.

Regardless of whether the SeaKey Response Center makes phone contact with you or not, they will proceed with the case and work with the appropriate rescue authorities until they know that you are safe.

Messages to the Response Center usually arrive within 2 and 5 minutes of initiation. However due to several external factors, these messages may get delayed.

At some point in the Ocean there will be no Cell Coverage, in that case the message will try to deliver from Satellite.

The communications satellites are continuously orbiting the earth, at times they may not be in direct view of your boat, or your boat's view of the satellite may be obstructed. In such cases or due to various other environmental conditions your message delivery may be delayed.

Caution! Use the SOS button only in times of emergency. Please don't test this service unnecessarily, as it will notify the emergency services, creating unwanted alarm.

The following are the SOS choice of Tags that are available:

- Fire
- Run aground
- Medical
- Burglary or Piracy
- Taking on Water
- Man Overboard
- No Maneuverability
- Other Incidents
- Mechanical Problem
- Collision
- Out of Fuel
-



Note: SeaKey treats “Burglary or Piracy” as a dangerous situation for the people on board. SeaKey will hide the SOS alarm by stopping the SOS button from blinking and showing the SOS as “Not Active” in the alarm status bar.

Contact SeaKey

This feature gives you the option of sending requests to the Response Center for various kinds of concierge or other non-emergency services. Whether you need a slip reservation or would like to know the location of a restaurant, the SeaKey Response Center personnel are available at all times. Once the SeaKey Response Center receives your message, they will contact you on your designated cell or satellite phone numbers. If you are not within the coverage area, they may try to contact you using the Messaging feature. See "[Messaging Service](#)" on page 22.

Using the Contact Feature

1. On the Main Menu, select **Contact SeaKey**.
2. Press the **Enter** button. The Confirmation screen is displayed.
3. Press the **Yes** button to confirm. The Contact SeaKey screen is displayed.
4. Use the navigational arrow buttons to select a request.
5. Select a request and press the **Enter** button. The message "Contacting SeaKey" is displayed. New messages will be displayed to show the progress in handling the request.

The following are the choice of requests that are available:

- Need Towing
- Out of Fuel
- Nearest Refueling
- Nearest Marina
- Mechanical Problem
- Slip Reservation
- Restaurant Reservation
- Others Please Call

Messages to the Response Center usually arrive within 2 and 5 minutes of initiation. However due to several external factors, these messages may get delayed.

Set Tracking

This feature provides you with two options: Mark Waypoint and Scheduled Tracking.

Mark Waypoint

This feature allows you to store your current position on the SeaKey website for future reference. For example, you can mark a location a hot fishing spot or a nice anchoring spot. You can select a tag on the Operator Module to be displayed with the waypoint.



Note: At your personal SeaKey website, you can modify the tags for the boat-initiated Tracking and Mark Waypoint. The new tags will be transferred automatically to the MSU.

Set Mark Waypoint

1. On the Main Menu, select **Set Tracking**.
2. Press the **ENTER** button. The Tracking screen is displayed.
3. Select **Mark Waypoints**. The Mark Waypoint screen displays a list of Waypoint tags.
4. Select a Waypoint tag and press the **ENTER** button. The “Transmitting Waypoint” message is displayed.
5. Press the **MENU** button to return to the Main Menu.



Note: The Operator Module enforces a ten minute wait before another waypoint can be marked and transmitted.

Scheduled Tracking

You can set the interval time to send tracking information to your personal SeaKey website periodically. There are two types of scheduled tracking:

- Boat Initiated Tracking - Using the Operator Module, you can set the interval to periodically send the position of the vessel along with an associated tag
- Web Initiated Tracking - This can be configured on the Web to send periodically the position of the vessel

Set Scheduled Tracking

1. On the Main Menu, select **Set Tracking**.



Note: Initially the status, displayed on the right side of the Set Tracking menu line is OFF, as it is not enabled. When it is enabled the status changes to ON.

2. Press the **ENTER** button. The Tracking screen is displayed.

3. Press the navigational down arrow button to select **Scheduled Tracking**, and press the **ENTER** button. The Scheduled Tracking screen is displayed.
4. Select **Interval** to send reports at periodic intervals.
5. Press the **ALTER** button to highlight the time.
6. Press the navigational arrow buttons to set the time.
7. Select **Tag** and press the **ALTER** button to highlight “no tag”.
8. Press the navigational arrow buttons to select a tag.
9. Select **Tracking State**, and press the **ALTER** button to highlight the status.



Note: Initially the status displayed is OFF. When you enable the option, the status changes to ON. The tracking state should be changed last to ensure that the selected interval and tag used.

10. Press the navigational down arrow button to change the status to **ON** and press the **SET** button.
11. Press the **MENU** button to return to the Main Menu.



Note: If the boat is stationary for 2 or more intervals, the tracking will automatically turn off. The MSU will send a final tracking report with the stationary location.

Viewing Tracking Sessions

Log on to your personal SeaKey website at www.myseakey.com. Under the Charts & Tracks tab, you will find all waypoints and tracking sessions that you have transmitted from your boat.

Set Anti-Theft

These features help to protect your vessel. If your boat is stolen, SeaKey can help in the recovery.

GeoFence

The “GeoFence” is designed to alert you if the boat departs from a predefined area. This feature is not designed or intended to be used for anchor drag or drift notification.

GeoFence works on the principal that once you’ve defined a perimeter (a position with a specified radius), the boat is secure. If your boat leaves the defined perimeter, the SeaKey device sends a signal to the Response Center. The Response Center representative immediately contacts you or someone you’ve designated as the person who will respond to the situation.

It is recommended that you enable GeoFence while still on-board. It is also possible to enable the same feature by logging on to your personal SeaKey website. The minimum GeoFence radius is 1/3 mile.



Note: GeoFence cannot be used for anchoring purposes, prevent drifting, or any other undesirable aspects of anchoring due to tide, current, or high winds.

Main Power Switch

The Main Power Switch alarm is an additional trigger that you can enable to send an alarm message should anyone switch on the main power switch to which SeaKey is connected. The benefit of using this alarm is that if an unauthorized person switches on the power, you will still be notified, even if the boat is not moved outside of the allowed perimeter.



Note: Depending on how your SeaKey system is wired, this switch could either be the Main Battery Switch or another main electronics breaker.

Setting the Radius

This feature allows you to define the GeoFence radius. If your vessel leaves the defined perimeter, the SeaKey device sends an alert to the Response Center.

Silent Alarm

When the Silent Alarm is enabled, there will be no audible or visible alarm on board the boat when an anti-theft alarm is triggered. The appropriate alarm message will however still be sent to the SeaKey Response Center.

Enable GeoFence

1. On the Main Menu, select **GeoFence**.
2. Press the **ENTER** button. The GeoFence screen is displayed.
3. Press the **“YES”** button to activate GeoFence.

Disable GeoFence

1. On the Main Menu, select **Anti-Theft**. Press the **ENTER** button.
2. Press the **EDIT** button. The User Pin Code screen is displayed.
3. Use navigational buttons to enter your **Pin Code** and press the **ENTER** button. The Anti-Theft Settings screen is displayed.
4. Select **GeoFence** and press the **ALTER** button. The **ON** status is highlighted.
5. Press one of the navigational arrow buttons to change the status to **OFF**.
6. Press the **SET** button to save.
7. Press the **MENU** button to return to the Main Menu.

Enable Main Power Switch alert

1. On the Main Menu, select **Anti-Theft**. Press the **ENTER** button.
2. Press the **EDIT** button. The User Pin Code screen is displayed.
3. Enter a valid **Pin Code** and press the Enter button. The Anti-Theft Settings screen is displayed.
4. Select **Main Power Switch** and press the **ALTER** button. The **OFF** status is highlighted.
5. Press one of the navigational arrow buttons to change the status to **ON**.
6. Press the **SET** button to save the change.
7. Press the **MENU** button to return to the Main Menu.



Note: To disable Main Power Switch alert, follow the above mentioned steps and change the status to OFF

Enable Silent Alarm

1. On the Main Menu, select **Anti-Theft**.
2. Press the **ENTER** button. The GeoFence screen is displayed.
3. Press the **EDIT** button. The User Pin Code screen is displayed.
4. Enter a valid **Pin Code** and press the **ENTER** button. The Anti-Theft Settings screen is displayed.
5. Select **Silent Alarm** and press the **ALTER** button. The **OFF** status is highlighted.
6. Press one of the navigational arrow buttons to change the status to **ON**.
7. Press the **SET** button to save the change.
8. Press the **MENU** button to return to the Main Menu.



Note: To disable Silent Alarm, follow the above mentioned steps, but only in Anti-Theft Settings screen change the status to OFF.

Set GeoFence Radius

1. On the Main Menu, select **Anti-Theft**. Press the **ENTER** button.
2. Press the **EDIT** button. The User Pin Code screen is displayed.
3. Enter a valid **Pin Code** and press the **ENTER** button. The Anti-Theft Settings screen is displayed.
4. Select **Radius** and press the **ALTER** button. The highlight shifts to the current radius.
5. Press one of the navigational arrow buttons to change the status to set the radius.
6. Press the **SET** button to save the change.
7. Press the **MENU** button to return to the Main Menu.



Note: The radius units (nautical miles, statute miles, and kilometers) can be altered in the user settings.

Canceling Anti-Theft Alarm

Should a GeoFence or Power Switch alarm be triggered, SeaKey will send the alarm immediately if the **Silent Alarm** is enabled. Otherwise, SeaKey will display a **Cancel Anti-Theft** screen. You will have 2 minutes to enter your PIN code to disable the alarm. Successfully entering the PIN code will prevent the alarm from triggering until the feature is re-enabled. Failing to enter the correct PIN code will cause the alarm to be sent.

Alarm Status

The SeaKey system comes with sensors that monitor various areas of the boat. These sensors are specifically designed to detect irregularities and send alert messages to the Response Center. The sensors that are provided are pre-configured as part of the service package.



Note: Whenever an alarm is active, an exclamation point will blink on the left side of the status bar.

The following are the pre-configured sensors:

Boat Battery Monitor

The boat battery sensor is a device that is designed to measure the voltage level of the boat battery from where SeaKey is being powered. This is typically the “house” or starter battery that also powers the bilge pumps. The MSU continually monitors your boat’s batteries. If the voltage level drops below a predefined level, the SeaKey MSU immediately notifies the Response Center. A Response Center representative then calls one of the contact numbers listed in your profile so that you can be alerted to the situation. You can also set up the system so that you are automatically notified via an e-mail. The MSU will also trigger a high battery alarm should it detect a high voltage level. This can occur when then there is a failure in the boat’s electrical system.

High Water Monitor

The float switch used to monitor for high water is located about 6 inches above the regular float switch for the bilge pump system. If the water level exceeds the higher level float switch, the MSU sends an alert to the SeaKey Response Center. The Response Center representative will immediately contact you or someone you have designated will respond to the situation. If the position indicates that your boat is out on open water, the SeaKey Response Center will alert the appropriate authorities as needed. You can also set up the system so that you are automatically notified via an e-mail.



Note: The High Water Monitor will not send an alarm if the float switch is lifted just briefly. In order to prevent false alarms in rough seas conditions, the alarm will only trigger if the float switch has been in its high position for an extended period of time.

Internal Battery Monitor

The SeaKey MSU has its own internal battery to ensure continued operation even loss of the main power. Before the voltage of the internal backup battery drops below a predefined limit where it may no longer be operational, the MSU immediately notifies the Response Center. A Response Center representative then calls one of the contact numbers listed in your profile so

that you can be alerted to the situation. You can also set up the system so that you are automatically notified via an e-mail.

GPS/GSM Antenna Monitor

The MSU monitors the GPS/GSM antenna connection. If for some reason the GPS/GSM antenna is disconnected, an alert message is sent to the SeaKey Response Center.

View Alarm Status

1. On the Main Menu, select **Alarm Status**.
2. Press the **ENTER** button. The Alarm status screen displays the status of all the alarms.

Types of Alarm Status

SOS Alarm Status

The status of the SOS alarm changes as it is progressing. The following are the SOS alarm status descriptions:

- **Not Active** - The SOS alert is not triggered.
- **Contacting SeaKey** - This indicates that the SOS alarm is being transmitted to the Response Center.
- **SeaKey Notified** - This indicates that the SOS alert was successfully sent via the satellites to the SeaKey Response Center.
- **SeaKey Acknowledged** – A SeaKey representative is actively working on the service request
- **SOS Alarm Cleared** - This indicates that the SOS alert has been resolved and closed by the Response Center.

High Water Alarm Status

The status of High Water alarm changes only if the boat takes on water. The following are the High Water alarm status descriptions:

- **Good** - This indicates that the water level is normal.
- **Triggered** - This indicates that the water level in the bilge exceeds the level of the float switch and an alarm is triggered.
- **Disabled** – The high water alarm has been disabled by the Response Center (i.e. due to a broken float switch.)

GeoFence Alarm Status

You have the option of enabling and disabling the GeoFence alarm. For example, when you dock your vessel, you can set the GeoFence to prevent theft. The following are the GeoFence alarm status descriptions:

- **Enabled** - This indicates that GeoFence alarm is active.
- **Triggered** - This indicates a GeoFence violation and the alarm is triggered.
- **Disabled** - This indicates that the GeoFence alarm is not enabled.

Main Power Switch Status

You have the option of enabling and disabling the Main Power Switch alarm. For example, when you dock your vessel, you can set the Main Power Switch alarm to prevent theft. This alarm is triggered when some tries to re-connect the power switch.

- **Disabled** - This indicates that the Power Switch alarm is not enabled.
- **Enabled** - This indicates that Power Switch alarm is active.
- **Triggered** - This indicates Power Switch alarm is triggered.

Boat Battery Alarm Status

This alarm status shows the boat battery's voltage level relative to predefined thresholds. The following are the alarm status descriptions:

- **Good** - This indicates that the battery voltage is between the high and low alarm thresholds.
- **High** - This indicates that the battery voltage is above the high alarm threshold.
- **Low** - This indicates that the battery voltage is below the low alarm threshold.

SeaKey Battery Alarm Status

The SeaKey Battery alarm status shows the SeaKey internal battery's voltage level relative to a predetermined threshold. The following are the alarm status descriptions:

- **Good** - This indicates that the battery voltage is above the low alarm threshold.
- **Low** - This indicates that the battery voltage is below the low alarm threshold.
- **Charging** - This indicates that the battery is being charged.

Messaging Service

SeaKey provides the option of two-way Messaging Service. You can send as well as receive messages. It is a simplified email service that will allow a maximum 100 characters in one message. You can send a message from the boat to any email address. To prevent “junk e-mails”, messages to your boat can only be sent from your SeaKey website, or from a SeaKey Guest Account.

Two-Way Messaging

To send a message from the boat, an e-mail address and message text must be created or chosen from the available list. SeaKey provides three ways:

- Predefined – from your personal SeaKey website you can create predefined messages (maximum 100 characters) and e-mail addressed (maximum 99 characters), that will be downloaded to the MSU for selection.
- Edit – at the Operator Module, you can modify a predefined e-mail address or message.
- Create – at the Operator Module, you can create a message and up to 16 e-mail addresses

When you receive a message(s), an envelope icon is displayed in the status bar and if required you could send a reply.

View Messages

1. On the Main Menu, select **Messaging**.
2. Press the **ENTER** button. The Messaging screen displays the number of messages in Inbox and Outbox.
3. Press the **INBOX** button. The Inbox screen displays Date, Time, From, and subject of the Message.
4. Select the required message by using the Arrow keys and press the **READ** button. The Read Message screen displays the complete message.
5. Press the **BACK** button to return to the Inbox screen.



Note: Depending on your Operator Module's software version, you may have different options for how to enter text. Please refer to the User Settings menu.

Reply to a Message

1. On the Main Menu, select **Messaging**. Press the **ENTER** button.
2. Press the **INBOX** button. The Inbox screen is displayed.
3. Select a message and press the **REPLY** button. The Reply screen is displayed.
4. Press the navigational arrow buttons to enter the text message.
5. Press the **Send** button to send the message.

Compose a New Message

1. On the Main Menu, select Messaging. Press the **ENTER** button.
2. Press the **INBOX** button and then press the **WRITE** button. The Write Message screen is displayed.

3. Press the **ALTER** button to enter the e-mail address. The Select Email Address screen is displayed.
4. Select an e-mail address from the list or press the **NEW** button to enter a new e-mail address.
5. Press the navigational arrow buttons to enter the E-mail address.



6. Press the **DONE** button to save and return to the Write Message screen.
7. Select **Message Text** and press the **ALTER** button.
8. Press the **DOWN ARROW** button to select a predefined message. If required press the **EDIT** button to modify the predefined message, or press the **NEW** button to enter a new text message.
9. Press the **SET** button to save and return to the Write Message screen.
10. Press the **SEND** button to send the e-mail and return to the Messaging screen.

Erase a Message

1. On the Main Menu, select **Messaging**.
2. Press the **ENTER** button. The Messaging screen is displayed.
3. Press the **INBOX** button. The Inbox screen is displayed.
4. Select a message and press the **ERASE** button. The Confirmation Message Deletion screen is displayed.



Note: To enter text messages, enable the "Jump Text" feature, as you can quickly enter the message text. See "Configure Jump Text Entry" on page 28.

5. Press the **Yes** button to delete.

Enter a New E-mail Address

1. On the Main Menu, select **Messaging**. Press the **ENTER** button.
2. Press the **WRITE** button. The Write Message screen is displayed. The **Receiver E-Mail Address** is highlighted by default.
3. Press the **ALTER** button. The Select E-Mail Address screen is displayed.

4. Press the **NEW** button to enter a new email address. The Enter Text screen is displayed.
5. Press the navigational arrow buttons to enter the new email address.
6. Press the **DONE** button to save the new email address and return to the Write Message screen.



Note: To edit the existing E-Mail Address, follow the similar steps, but only in “Select E-Mail Address” screen, press the Edit button to modify the email address. SeaKey will hold up to 16 saved e-mail addresses.

Create a Message Text

1. On the Main Menu, select **Messaging**. Press the **ENTER** button.
2. Press the **WRITE** button.
3. Press the **DOWN** button to select **Message Text** and press the **ALTER** button. The Select Message screen is displayed.
4. Press the **NEW** button to define a new message. The Enter Text screen is displayed.
5. Press the navigational arrow buttons to define a new message.
6. Press the **DONE** button to save the new message and return to the Write Message screen.



Note: To edit the existing predefined message, follow the similar steps, but only in “Select Message” screen press the Edit button to modify the message.

Global Positioning System

This feature displays the current latitude and longitude position, heading, speed, and status of the GPS/GSM receiver.

View GPS Information

1. On the Main Menu, select **GPS**.
2. Press the **ENTER** button. The GPS screen displays the current GPS information.



Note: The formats for position, heading and speed can be changed in the User Settings screen.



User Settings

Use this feature to view the current system settings and make modifications to the same. You can modify the following:

- PIN Code
- Local Time
- Date
- Time
- Location
- Heading
- Speed
- Distance
- Language
- Jump Text Entry

View User Settings

1. On the Main Menu, select **User Settings**.
2. Press the **ENTER** button. The User Settings screen displays the current settings.
3. Press the **MENU** button to return to the Main Menu.

Configure PIN Code

1. On the User Settings screen, select **PIN Code**.
2. Press the **ALTER** button. The User PIN Code screen is displayed.
3. Enter the **Old PIN Code** and press the **ENTER** button. The Enter New PIN Code screen is displayed.
4. Enter the **New PIN Code**.
5. Press the **SET** button to save and return to the User Settings screen.



Tip: It is not required to use all available 8 digits. E.g. if you choose to use a PIN Code with only 4 digits, leave the last four digits at 0



Note: If you forget your PIN Code, contact the SeaKey Response Center to reset your PIN.

Configure Local Time

The time displayed on the status bar is GMT until the local time offset is entered. This offset is also applied to the timestamps of the inbox messages.

1. On the User Settings screen, select **Local Time**.
2. Press the **ALTER** button. The Local Time zone Offset screen is displayed.
3. Press the navigational arrow buttons to modify the Local Time Offset.
4. Press the **SET** button to save and return to the User Settings screen.

Configure Date Format

The date format is applied to the dates in the Inbox messages

1. On the User Settings screen, select **Date**.

2. Press the **ALTER** button. The Date Format screen displays date formats.
3. Press the navigational arrow buttons to select a Date Format.
4. Press the **SET** button to save and return to the User Settings screen.

Configure Time Format

Time can be displayed in either 12-hour (AM/PM) or 24-hour (military) format. This format is applied to both time on the status bar and Inbox message time stamps.

1. On the User Settings screen, select **Time Format**.
2. Press the **ALTER** button. The Time Format screen is displayed.
3. Press the navigational arrow buttons to select the Time Format.
4. Press the **SET** button to save and return to the User Settings screen.

Configure Location Format

The location format is applied to lat/long coordinates displayed on the GPS screen.

1. On the User Settings screen, select **Location**.
2. Press the **ALTER** button. The Location Format screen is displayed.
3. Press the navigational arrow buttons to select a Location Format.
4. Press the **SET** button to save and return to the User Settings screen.

Configure Heading Unit

The heading format is applied to the positions displayed on the GPS screen.

1. On the User Settings screen, select **Headings**.
2. Press the **ALTER** button. The Heading Units screen is displayed.
3. Press the navigational arrow buttons to select a Heading Unit.
4. Press the **SET** button to save and return to the User Settings screen.

Configure Speed Unit

The speed format is applied to speeds displayed on the GPS screen.

1. On the User Settings screen, select **Speed**.
2. Press the **ALTER** button. The Speed Unit screen is displayed.
3. Press the navigational arrow buttons to select a Speed Unit.
4. Press the **SET** button to save and return to the User Settings screen.

Configure Distance Unit

The distance format is applied to the GeoFence radius choices.

1. On the User Setting screen, select **Distance**.
2. Press the **ALTER** button. The Distance Units screen is displayed.
3. Press the navigational arrow buttons to select a Distance Unit.
4. Press the **SET** button to save and return to the User Settings screen.

Select Language Preference

1. On the User Settings screen, select **Language**.
2. Press the **ALTER** button. The Language Preference screen displays a list of available languages.
3. Press the navigational arrow buttons to select a language.
4. Press the **SET** button to save and return to the User Settings screen.

Configure Jump Text Entry

The jump text entry feature allows you to jump four characters at a time when creating a boat-initiated message or entering an e-mail address. This can speed the process of entering text.



Note: Depending on the software version of your Operator Module, you may have different options for entering text. Please refer to the User Settings Menu.

1. On the User Settings screen, select **Jump Text Entry**.
2. Press the **ALTER** button. The Jump Text Entry screen is displayed.
3. Press the navigational arrow buttons to select the options **ON / OFF**.
4. Press the **SET** button to save and return to the User Settings screen.

Contact Information

Use SeaKey Contact Information for assistance or information. The Contact Information provides toll free number, international contact number, e-mail address, and web address.

View Contact Information

1. On the Main Menu, select **Contact**.
2. Press the **ENTER** button. The SeaKey Contact Information screen displays the contact details.
3. Press the **MENU** button to return to the Main Menu.

Off Season Power Mode

If you winterize or store your boat for an extended time, and it's not connected to shore power, you should put the MSU into Off Season Power Mode. This power mode puts the MSU into a very low power state, minimizing the drain on the boat's battery and the MSU's internal battery.

While in this mode, the MSU will continue monitoring the Float Switch and SOS button, responding immediately to either alarm. However, the MSU disables the following activities:

- GeoFence violation
- Responding to website commands, including polling the vessel's location and status
- Battery voltage monitoring



Note: If someone attempts to start the engine, power switch alarm will trigger if enabled.

Off Season can be commanded from the Operator Module or from the SeaKey Response Center. Switching on the Main Battery and/or starting the engine will stop Off Season and restore normal MSU functions.

Enable Off Season Power Mode


1. On the Main Menu, select **Off Season Power Mode**.
2. Press the **ENTER** button. The Off Season Power Mode screen is displays the instructions. Press the **DOWN ARROW** button to read the instruction.
3. Press the **ENTER** button to put SeaKey in Off Season Power Mode. The Confirm Off Season Power Mode screen is displayed. Read the instructions.
4. Press the **ENTER** button to put SeaKey in Off Season Power Mode and return to the Main Menu.
5. The Off Season Power Mode is fully activated when the main battery switch is turned off.

Diagnostic Services

The Diagnostic Services helps you in monitoring the status of sensors, voltage levels, and the GPS/GSM receiver. It also provides information of the MSU Satcom-ID number and firmware version.

Sensors

The Diagnostic Services provide the status of the following sensors:


| | |
|---|--|
|  | <ul style="list-style-type: none"> • SOS Switch • High Water Switch • Main Power Switch • Boat Battery Type (12V or 24V) • Boat Battery voltage level • SeaKey battery voltage level |
|---|--|



Note: While in the Sensors screen, triggering the SOS, high water or main power switch will change the display but not trigger an alarm. This screen can therefore be used to test these switches.


Global Positioning System (GPS)

The GPS Diagnostic screens show the current GPS status.

| | |
|---|--|
|  | <ul style="list-style-type: none"> • Latitude and longitude position • Fix indicator (3D fix or not) • Antenna status |
|---|--|

Satellite

The Satellite screen shows the current status for the satellite communications channel. The Uplink and Downlink values should be 3 or higher.

| | |
|---|--|
|  | <ul style="list-style-type: none"> • Uplink • Downlink |
|---|--|



- Uplink
- Downlink

About

The About screen provides information on the MSU serial number (or SATCOM-ID) and firmware versions.

Sensor Status

1. On the Main Menu, select **Diagnostics** and press the **ENTER** button. The Diagnostics screen is displayed.
2. Select **Sensor**, and press the **ENTER** button. The Sensors screen displays the status of different sensors.
3. Press the **BACK** button to return to the Diagnostic screen.

Testing Sensors

You can test the connection to the Float Switch, Main Power Switch, and SOS Switch without triggering an alarm or turning off the Operator Module

1. On the Main Menu, select **Diagnostics** and press the **ENTER** button. The Diagnostics screen is displayed.
2. Select **Sensor**, and press the **ENTER** button. The Sensors screen displays the status of different sensors.
3. Lift the Float Switch, turn off the Main Power Switch, or press the SOS button. The status changes to on / off, indicating that the sensors are functioning.

View GPS/GSM Status

1. On the Main Menu, select **Diagnostics** and press the **ENTER** button. The Diagnostics screen is displayed.
1. Select **GPS/GSM**, and press the **ENTER** button. The GPS/GSM screen displays the current GPS/GSM receiver status.
2. Press the **BACK** button to return to the Diagnostic screen.

View MSU Serial Number (Satcom-ID) and Firmware Versions

1. On the Main Menu, select **Diagnostics** and press the **ENTER** button. The Diagnostics screen is displayed.
2. Select **About**, and press the **ENTER** button. The About screen displays the MSU serial number (Satcom-ID) and firmware versions.
3. Press the **BACK** button to return to the Diagnostics screen.
4. Press the **MENU** button to return to the Main Menu.

Index

| | |
|--------------------------------|----|
| Alarm Status..... | 19 |
| Basic Features..... | 5 |
| Contact Information | 28 |
| Copyright..... | 1 |
| Diagnostics | 30 |
| GeoFence | 16 |
| Global Positioning System..... | 25 |
| Introduction | 3 |
| Symbols Used..... | 3 |
| Messages | |
| Compose New..... | 22 |
| New Email Address | 23 |
| New Message Text | 24 |
| Messaging..... | 22 |
| View Messages | 22 |
| Off Season Power Mode..... | 29 |
| Product Overview | 4 |
| Safety Notices..... | 1 |
| SatComm ID | 9 |
| Set Tracking | 14 |
| System Activation | 8 |
| System Operation..... | 11 |
| SOS Message | 11 |
| Technical Support..... | 3 |
| User Settings..... | 26 |
| Format Date..... | 26 |
| Local Time | 26 |
| PIN Code | 26 |
| Speed Format..... | 27 |