



# Siren 3 Pro Installation Guide



Monitor



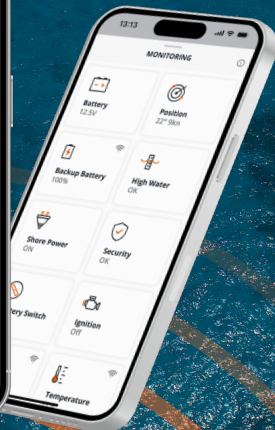
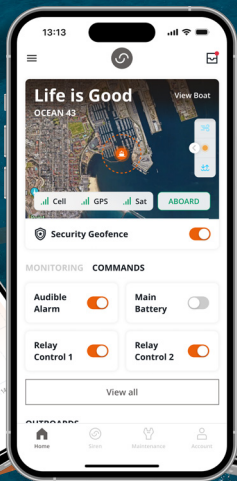
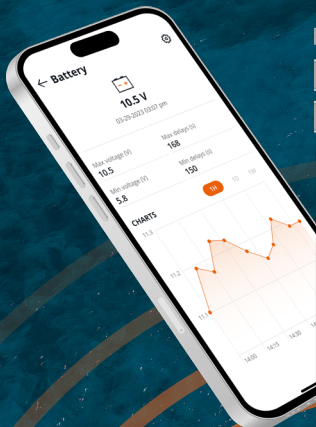
Track



Control



Maintain



## Peace of Mind with Smart Boat Technology

Siren Marine is revolutionizing the boating experience with our Connected Boat® technology. Boat owners and fleet operators can now access critical information instantly and enjoy having peace of mind with the Siren Connected Boat App.

With Siren Marine, you will be able to monitor, track, control, and secure your boat remotely and on board. Our products are designed to detect a problem on your boat before it becomes critical by connecting data directly to your smart phone, tablet or smart watch in real time. Siren Marine's technology developed "by boaters, for boaters" is here to give you greater control and be the solution to your boating needs while away or on the water.

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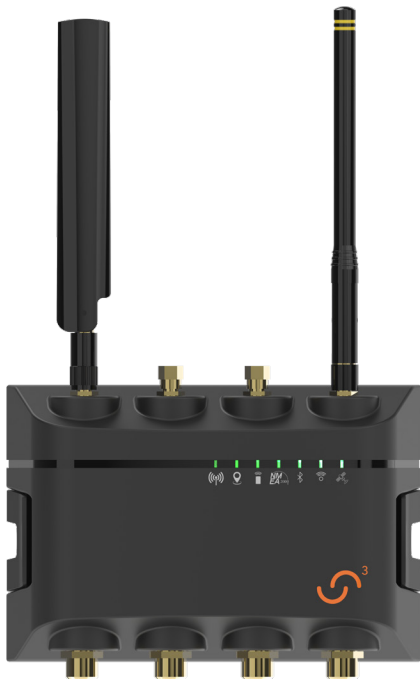
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## Siren 3 Pro Standard Features

The Siren Marine Siren 3 Pro is leading the future of the Connected Boat® by offering the most versatile and reliable vessel management system on the market. The Siren 3 Pro operates with global 4G/5G LTE-M cellular connectivity, includes options for both wired and wireless sensors, and includes a connection to the NMEA 2000 network. With a Siren Marine subscription, you will have full access to your Siren 3 Pro from our easy-to-use smart device app or fleet management site.

Please visit [sirenmarine.com/subscriptions](https://sirenmarine.com/subscriptions) to purchase your choice of a monthly, annual, or seasonal subscription.

*As part of our power-saving routine, the LED indicator on the Siren 3 Pro will turn off after five minutes. To restart the LEDs, double-tap the face of the unit with two firm taps.*





### GPS Position & Geofence

Track the location and movement of your boat and set a geofence that will provide a notification if the boat leaves or enters that zone.



### Battery Functions

- Voltage and low battery monitoring
- Remote battery switching with optional accessory Remote Battery Switch
- Battery switch on/off monitoring.



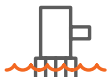
### Engine Metrics

- Single-engine hardwired connections can be set up to monitor engine hours and maintenance cycles.
- With the NMEA 2000 connection, monitor engine performance, alerts, and fuel consumption for multiple engines.



### Tank Levels

With an NMEA 2000 connection, monitor fuel, water, and waste tank levels.



### Bilge Pump Monitoring

Monitor multiple bilge pumps onboard through the wired and wireless bilge pump activity sensors.



### High Water

Place high water sensors throughout the boat and receive alerts for high water levels with wired and wireless sensors.



### Security

Monitor motion and entry with a variety of Siren Marine wired and wireless sensors.



### Shore Power

Monitor the presence of shore power from the incoming AC voltage line and receive alerts if shore power is lost.



### Temperature

Using wireless sensors, monitor the temperatures of multiple areas of cabin, engine room, fridge, etc.



### Control Devices

The Siren 3 Pro has four hardwired control outputs. These control outputs can be connected to an appropriate AC or DC relay to control lighting, air conditioning, refrigeration, electronics, etc. Compatible with select digital switching systems.

# Siren 3 Pro Standard Features (Continued)



## **NMEA 2000 Monitoring and Control**

Connect to the powerful marine standard of inter-product communications. The Siren 3 Pro connects directly to the NMEA 2000 data line. A NMEA 2000 cable and T-connector are required for this feature. Optional NMEA 2000 connection hardware available at [sirenmarine.com](http://sirenmarine.com).

Additional NMEA 2000 capabilities are continuously being developed by Siren Marine and will be delivered by Siren Marine's powerful Over the Air (OTA) upgrade portal.

NMEA 2000 features are available on the Siren Connected Boat App and SirenFleet portal.

## **NMEA 2000-Compatible Systems Include:**

- Engines (Up to Six):
  - Operating performance, engine hours, alert information and fuel consumption
- Tanks – Any number of fuel, water or waste tanks are viewable
  - Current and historic liquid levels, number of gallons/liters, percent remaining
- Digital Switching – CZone
  - View status and control both individual switches and groups (modes) of switches

# Package Contents

## Main Device



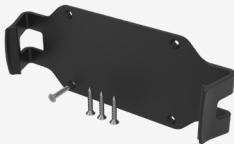
## Wiring Cable 1 & Connection Hardware



## Cellular & Wireless Sensor Antennas *(installation required)*



## Mounting Bracket & Mounting Hardware



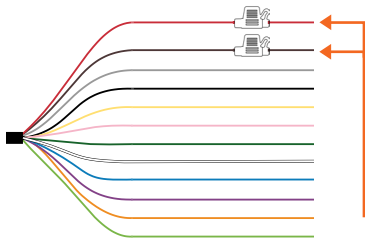
## Get Started Card



# Wiring Cable 1

## Installation Instructions

1. Attach the wiring Cable 1 connector to the device Harness 1 connector by matching the 12-PINs, then screw together tightly.
2. Connect the ground (-) wire (black) on the wiring cable to a battery negative post or common ground.
3. Connect the power (+) wire (red) on the wiring cable to a 12-24V battery positive post or constant 12-24V power source.
4. Connect selected wired sensors using terminal block, or other connection type.



Wire Color	Input/Output	Function
Red	Power Input	Battery 1 (+)
Brown	Input	Battery 2 (+)
Gray	Input	Remote Arm/Disarm
Black	Input	Ground (-)
Yellow	Input	High Water 1
Pink	Input	Security 1
Dark Green	Input	Ignition/Engine Hours
White	Output	Relay Control 2
Blue	Output	Remote Battery Switch
Purple	Output	Relay Control 1
Orange	Input	Battery Switch ON/OFF Monitor / Hardwired Bilge Pump
Light Green	Input	Shore Power

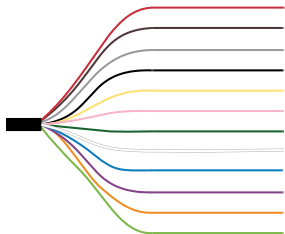
Wiring Cable 1 (Harness 1) includes a 5A inline fuse holder on wires Battery 1 (+) & Battery 2 (+)  
Cable Length: 36 in (914.4 mm) | Wire Length: 6 in (152.4mm)



# Wiring Cable 2 (Optional)

## Installation Instructions

1. Attach the Wiring Cable 2 connector to the device Harness 2 connector by matching the 12-PINS, then screw together.
2. Connect selected wired sensors using connectors, terminal block, or other connection type.



Wire Color	Input/Output	Function
Red	Output	RS422 TX+
Brown	Output	RS422 TX-
Gray	Input	RS422 TX+
Black	Input	RS422 TX-
Yellow	Input	High Water 2
Pink	Input	Security 2
Dark Green	Input	Accessory Ground
White	Output	Relay Control 3
Blue	Output	Relay Control 4
Purple	Output	Satellite Modem TX (RS232)
Orange	Input	Satellite Modem RX (RS232)
Light Green	Input	Security 3

## Antenna Connections (Required)

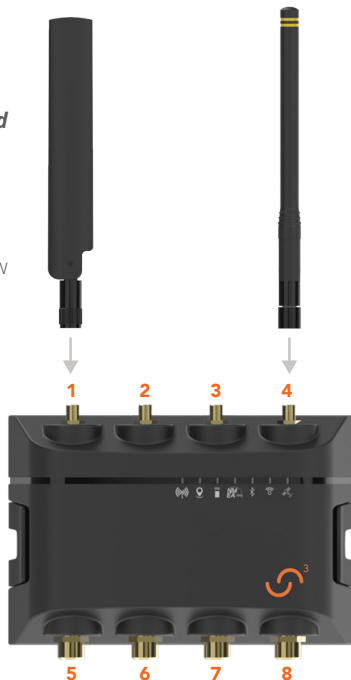
The Siren 3 Pro comes with a cellular communications antenna and a wireless sensor communications antenna. **These antennas are required and are not interchangeable.** The Siren 3 Pro features an internal GPS antenna that is used for most installations. If the device is being mounted where it is not possible to receive a GPS signal, an external Siren GPS antenna can be used as an alternative option that allows the GPS antenna to be remote mounted to a location that allows a clear view of the sky.. This can be found on our products page at [siremarine.com](http://siremarine.com).

### Installation Instructions

To connect antennas, remove caps on the cellular and wireless connectors and screw antennas on as shown.

### Connector Guide (See numbers on image to the right)

1. Cellular Antenna
2. External GPS Antenna (Optional Accessory)
3. Unused
4. Wireless Sensor Antenna
5. Wiring Cable 1
6. NMEA 2000 Connector
7. Reserved CAN Bus Connector
8. Wiring Cable 2 (Optional Accessory)

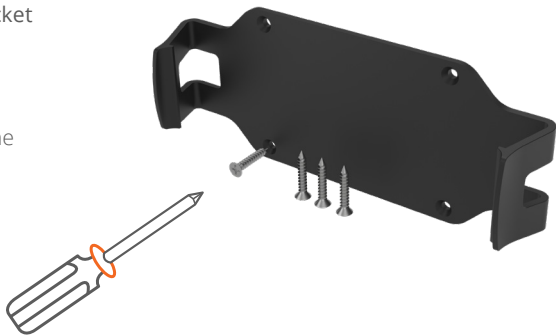


# Mounting & Installation

The Siren 3 Pro device is supplied with a mounting bracket and (4) #5 3/4" stainless flat head Phillips mounting screws. We recommend the Siren 3 Pro be installed in a covered area, such as under the helm or in a cabinet and away from metal material that may cause signal interference. ***The Siren 3 Pro should be installed in a vertical position to obtain optimal GPS signal.*** If installing the Siren 3 Pro horizontally, we recommend purchasing the external GPS antenna available on [sirenmarine.com](http://sirenmarine.com).

## Mounting Installation Steps

1. Hold the mounting bracket in desired location.  
Optional: Mark each hole on the mounting bracket to drill pilot holes prior to installing supplied screws.
2. Using a small Philips-head screwdriver, tighten each supplied mounting screw to each hole on the mounting bracket to surface.
3. Ensure mounting bracket is secured to surface.
4. Push the Siren 3 Pro device into the bracket. You should hear two clicks when device is secured in bracket.



***WARNING: To prevent unwanted RF exposure mount device 20cm (8") from boat occupants.***

# Getting Started

## Requirements

Before you begin, ensure that you have the necessary equipment and subscription needed to operate your Siren 3 Pro:

### Main Device



### Siren 3 Pro Wiring Cable 1



### 9 to 30 VDC Battery/ Power Supply



### Siren Marine Subscription *(available at sirenmarine.com)*



### Siren Connected Boat App *(iOS / Android)*



# Battery Connection

## ⚠ READ BEFORE CONNECTING POWER

**If the power input lead is extended, fusing of the same rating (5A, fast acting) must be installed within 7" of the battery's positive terminal.**

The supplied Wiring Cable 1 comes with 5A inline fuse which connects the device to your vessel's battery and provides all power required by the Siren 3 Pro. (See page 8 for Wiring Cable 1 Installation Instructions)

Power may be provided directly from the battery posts or any unswitched power circuit that is powered by the battery.

**Note:** Power must be fused for device protection. The Wiring Cable 1 has two inline fuses included for this purpose.

**Important:** Do not wire the Siren 3 Pro to the switched side of a battery switch. Ensure the Siren 3 Pro is connected to 24/7 power.

## Connect to Power

The Siren 3 Pro can operate on a power supply ranging from 9V to 30V DC. The device contains an internal battery which is designed to provide backup power if external power is interrupted. The internal battery power remaining will be displayed on the Siren Connected Boat App, ensure that the tile is enabled. The internal battery is continually charged while the Siren 3 Pro is connected to battery power.

The Battery 1+ lead is the connection that will power your main device, the Battery 2+ lead is only used to sense the voltage on a second battery bank.

## Connect to Power (Continued)

The Siren 3 Pro is supplied with a 5A fast acting fuse and is fitted between the Siren 3 Pro and the power supply.

The LEDs on the Siren 3 Pro will indicate connection activity for Cellular, GPS, and Wireless Sensors, NMEA, and Satellite. Some features may require additional hardware, or may be for future product capabilities. See page 27 for complete LED indication table.

### **Battery 1 Connection and Monitoring**

The Battery 1 connection powers the Siren 3 Pro and can be monitored through the Siren Connected Boat App. This battery is displayed on the app in the Battery 1 tile by default. Please see the Siren Connected Boat App Guide to learn how to set voltage alert thresholds for this battery.

# Sensors and Inputs

**Important:** Only Siren 3 series wireless sensors can be paired to the Siren 3 series devices. These are indicated with a superscript “3” above the Siren Marine logo on each wireless sensor module.



The Siren 3 Pro can connect to a variety of wired and wireless sensors. Each input will be displayed on the Siren Connected Boat App or the SirenFleet (fleet.sirenmarine.com) portal to indicate behavior and status.

**Wired Sensors** connect directly to the corresponding lead in Wiring Cable 1 and Wiring Cable 2. When wired sensors are connected, the data from that sensor becomes available in the Siren Mobile and SirenFleet Apps (ensure that the tile is turned on).

## Wireless Sensor Pairing Preparation

**Please verify you have the correct sensor model for your device.**

- Wireless Sensors compatible with a Siren 3 Series Main Device have the same logo on the front cover, but with the addition of the number “3” above the logo

**Wireless Sensors are not interchangeable between the MTC and Siren 3 Series Main Devices.** The sensor will not pair to the Main Device if it is not the correct model. Sensor tails are interchangeable, but we advise using the new tails that come with new sensors if you are replacing a sensor or have upgraded from a previous generation device.

**Before You Begin:** Before pairing sensor modules, ensure cellular connectivity by noting the indicator light on the Main Device or in the Siren Connected Boat App.

On a Siren 3 Series Device, the cellular LED indicator (leftmost) should be steady green (not flashing), to indicate cellular connectivity. Once a Wireless Sensor has successfully communicated with the Main Device, the wireless sensor LED (third from the left) will turn from flashing to steady green.

# Wireless Sensor Pairing

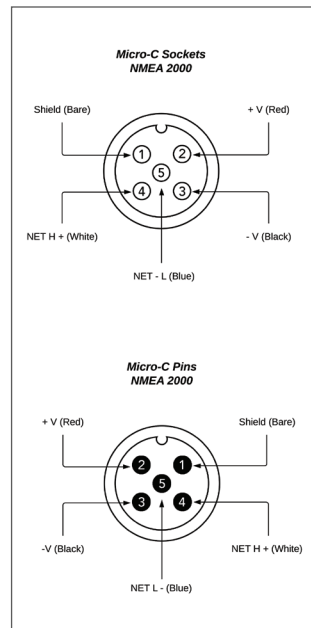
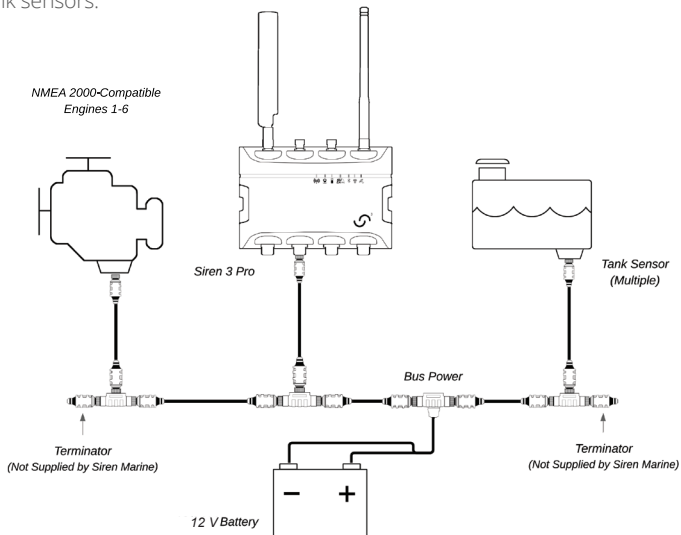
You will need your smartphone, Siren Connected Boat App, active Cellular Subscription, Wireless Sensor with **coin cell battery removed**, and the Main Device installed and powered on. Note: If sensor was already paired, but not working correctly, remove the coin cell battery and wait at least 60 seconds before re-inserting.

1. Bring the sensor near the Main Device with the tail connected to the sensor (if applicable). **Ensure that the tail is not connected to what the sensor is monitoring e.g. bilge pump or battery bank.**
2. Go to the Settings page of the App and select 'Add Wireless Sensor'. Then use the mobile app to scan the QR code on the back of the Wireless Sensor. Follow on-screen instructions.
3. Insert the coin cell battery into the Wireless Sensor. Siren 3 Series sensors will have a flashing LED towards the bottom of right of where the battery was inserted. (If you do not see any LED flashes, you could have the wrong sensor model or the battery could be dead.)
4. Wait 15 minutes.
5. Check to see if the sensor is showing a current date/time stamp in the App to indicate that the module is communicating. To verify this, tap on the tile associated with the Wireless Sensor on the home-screen where you will find the date/time stamp under the sensor icon. Do not move the sensor away from the Main Device until you see the current date/time stamp.
6. Once the sensor has established communication with the Main Device, bring the sensor to its desired mounting location. Verify that the sensor is still communicating by noting the date/time stamp on the associated tile in the Siren Connected Boat App. This will ensure the Wireless Sensor maintains signal in the location you intend to install it.
7. If your sensor is using a battery or bilge tail, wait at least 15 minutes after sensor communication has begun before connecting the tail to a battery bank or bilge pump. If this step is not followed, you will need to remove the coin cell battery for 60 seconds and repeat starting with Step 5.



# NMEA 2000 Wiring Diagram

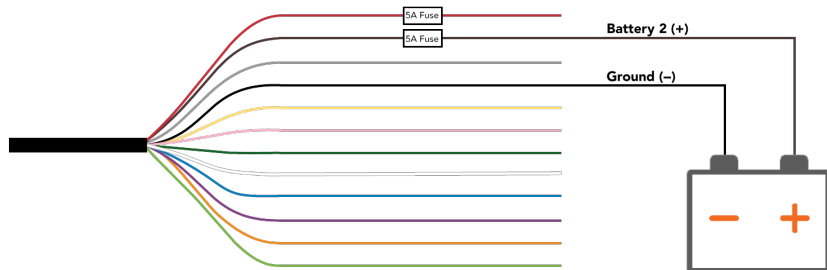
This diagram shows an example of an NMEA 2000 backbone with the Siren 3 Pro device, NMEA 2000-compatible engines and NMEA 2000-compatible tank sensors.



## Battery 2 Input

- A second battery or battery bank can be monitored by connecting wired battery 2 from the harness. 30V maximum.
- Wireless sensors can be connected to DC batteries up to 60V maximum.

### Wired Battery 2 Diagram



## Battery 2 Input (Continued)

### Wireless Sensor Installation

Before connecting a wireless battery sensor to a battery, pair the sensor to your Siren Connected Boat App using the QR scanning process outlined in the wireless sensor pairing guidelines on pages 15 & 16.

Once you have successfully paired and mounted the wireless sensor, connect the positive (+) lead on the sensor tail (red) to the positive (+) post on the battery source. Connect the negative (-) lead on the sensor tail (black) to the negative (-) post on the battery source.

**Note:** The wireless battery tail is three feet long (.91m). This should be considered prior to permanent installation.

## (Optional) Manual Arm/Disarm Switch

The gray wire included with Wiring Cable 1 is designated for a manual Arm and Disarm toggle switch (switch not supplied). Mount this Arm/Disarm toggle switch in a hidden area or at the helm. This gives you the option to manually arm and disarm the system as an alternative to using your Siren Connected Boat App. The Siren 3 Series is able to distinguish the current arm/disarm state so that no matter what position the switch is in, toggling the switch will change the arm state. Changing the arm/disarm status in the app will override the manual toggle switch's current state.



### Installation

Install a DC single pole rocker switch and connect the Harness 1 gray wire to a switch terminal or wire and connect the other switch terminal or wire to DC Common Ground (-).

## Ignition 1 Input (Displays Engine 1 Hours)



This input is designated to detect when your engine is on or off. This input will provide a display of accumulated engine hours on the Mobile and Fleet Apps. If NMEA 2000 is connected, the engine hours information from NMEA will override the ignition wire input.

This connection can be made from a variety of connection points, i.e. oil pressure switch, ignition, etc. The only requirement is that the connection point is active while the engine is running and is a positive voltage with respect to ground and doesn't exceed 30V.

To monitor engine hours from a negative (-) source, use the Siren Marine PAM-4 DC Relay. Please reference the AC and DC relay on the support page at [sirenmarine.com](http://sirenmarine.com).

A wired ignition input for a second engine is not available out of the box. Monitoring the hours of multiple engines requires a connection to the NMEA 2000 backbone and the use of NMEA 2000-compatible engines (See page 6).

### Installation

Connect to the positive (+) terminal from your ignition-powered circuit to the dark green wire on Wiring Cable 1. This input senses positive (+) voltage when the key is turned on.

# Security 1, 2, & 3



The Siren 3 Pro security inputs are used to indicate intrusion or motion with a variety of Siren Marine security sensors.

## Wired Input Installation

These are normally-closed (N/C) inputs designated for Siren Marine security sensors including reed switches, motion sensors, canvas snap sensors, and magnetic entry sensors. Please reference the specific accessory wiring instructions included with the security accessory you are connecting.

These inputs when grounded indicate a safe security condition on the boat. When the connection to ground is broken, it is detected as a security breach. Ensure that security accessories being connected to these inputs trigger accordingly.

## Wireless Sensor Installation

The wireless security sensor is used to provide an alert for entry into entrance ways, lockers or hatches. Please refer to the Wireless Sensor Guide accompanying your wireless sensor purchase for more details.

### 1. Refer to wireless sensor pairing steps on pages 15 & 16

2. Mount the sensor bracket to the hatch, locker, or other entry point using the supplied screws or adhesive strip.
3. Mount the magnet directly opposite the wireless module using the supplied adhesive strip. The magnet should be parallel to the long side of the sensor.

**Note:** When the entry point is opened, a notification will be sent to the Siren Connected Boat App. There are 4 output relays that can be programmed by mobile app to alert if a security sensor has been triggered. These can be used to switch on lights, sirens or other devices to deter intruders.

# High Water

This sensor is designated to detect high water in the bilge or other areas where water detection is required. Any normally-open (N/O) water sensor or float switch that closes to ground (-) will work for this connection.



## Wired Input Installation

Connect one wire from the water sensor to the yellow wire on Wiring Cable 1 (see page 8). Connect the ground wire on the accessory to negative (-).

## Wireless Sensor Installation

- 1. Refer to wireless sensor pairing steps on pages 15 & 16**
2. Plug the high-water tail into the wireless module and tighten the two hex screws.
3. Mount the sensor bracket to an area above the high-water line using the mounting bracket or adhesive strip, secure water-sensing end of the tail at the desired height and connect the wireless sensor to the bracket.

Note: Notifications will be sent to the Siren Connected Boat App if the water level in the bilge rises and contacts the wireless sensor tail.

## Shore Power



This input is designated to detect the presence and loss of shore power and can be monitored using a Siren Marine Shore Power Sensor Plug or a Siren Marine AC Relay (120V or 240V).

### Wired Sensor Installation

The Shore Power Sensor Plug is installed by connecting the black lead to negative (-) and the signal lead from the plug to the light green wire of Wiring Cable 1 (See page 8).

The Siren Marine AC Shore Power Relay is installed by wiring directly from the shore power circuit breaker. Please reference the installation guide supplied with the Shore Power Relay for more detail.

## Battery Switch/Hardwired Bilge Pump Input

This input is designated to monitor EITHER the on/off position of a manual battery switch, or the activity of your bilge pump. You can change which accessory you would like to monitor in the Settings menu of your Siren Connected Boat App under "Wired Input Preference"

**To Monitor Your Battery Switch:** Connect the switched side of the battery switch to the orange wire of Wiring Cable 1 (see page 8). Connect the negative (-) side of the switch to the black wire on Wiring Cable 1.

**To Monitor Your Bilge Pump:** Connect the orange wire of Wiring Cable 1 in between the positive (+) fed float switch and bilge pump, or to a bilge pump indicator light. This input senses the presence of 12VDC/24VDC to monitor bilge activity.

# Temperature

## Wireless Temperature Sensors

Detecting temperature with the Siren 3 Pro is accomplished by adding wireless temperature sensors. It is possible to monitor multiple temperatures at the same time. This may include cabins, engine room, bait locker, refrigerator, etc. Wireless Temperature sensors operate with or without the supplied temperature sensor tail.



## Wireless Sensor Installation

### 1. Refer to wireless sensor pairing steps on pages 15 & 16

2. Plug the temperature sensor tail into the wireless module and tighten the two hex screws. If using the wireless temperature sensor without the temperature sensor tail, select the “internal” option when prompted while pairing the sensor to the Siren Connected Boat App. Select the “external” option if using the sensor tail.
3. Mount the wireless module in the area to be monitored.
4. To monitor temperature of a specific area or piece of equipment such as the inside of a refrigerator, attach one end of the temperature probe to what you want to monitor. Connect the other end of the tail into the wireless module and tighten the two hex screws.



## Relay Control Outputs (#1, #2, #3, #4)

The Siren 3 Pro has the ability to control the power supply for up to four separate circuits. Each output on the Siren 3 Pro unit has a max rating of .5 amps. Most loads will require the use of a Siren Marine DC or AC power relay.

### Wiring Cable 1 (See page 8)

- Output 1: Purple wire
- Output 2: White wire

### Wiring Cable 2

- Output 3: White wire
- Output 4: Blue wire

Outputs can be configured to activate either when a direct output request is sent from the mobile app's Commands page, and/or automatically in response to user-defined rules set up in the mobile app, or from the SirenFleet application. See the user guides for the Siren Connected Boat App or the SirenFleet portal for more information ([sirenmarine.com/pages/user-guide](http://sirenmarine.com/pages/user-guide)).

For power applications higher than .5 amps, such as a DC bilge pump or AC air conditioner, please match the external relay to the load requirements of the application. **Note: These connections switch to ground (-) and do not supply voltage.**

## Remote Battery Switch

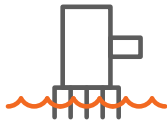
The Siren 3 Pro is capable of controlling some Remote Battery Switches (available at your local marine retailer or at [sirenmarine.com](http://sirenmarine.com)). This designated output provides remote control of the switch.

### Wired Input Installation

Connect the blue wire in Wiring Cable 1 (See page 8) to the Remote Battery Switch.

## Wireless Bilge Pump Input

The wireless bilge pump input monitors bilge pump activity. Use the mobile application to set up the parameters for when you will receive alerts about the bilge pump cycling activity.



### Wireless Sensor Installation








- 1. Refer to wireless sensor pairing steps on pages 15 & 16**
2. Plug the bilge tail into the wireless module and tighten the two hex screws.
3. Mount the sensor bracket in an area above the high-water line using the mounting bracket or adhesive strip, and connect the wireless sensor to the bracket.
4. Connect the positive (+) and negative (-) leads from the sensor directly to the positive (+) and negative (-) leads of the bilge pump.

## Status LED Indicators

The Siren 3 Pro has seven LED indicators which show the status of connectivity to all wireless connections. (see page 27 for complete LED indication table).

While the unit is powering on, you will see the LEDs illuminate in order while connections are being established.

## LED Indication Table

	 Cellular	 GPS	 Wireless Sensors	 NMEA 2000	 Bluetooth	 WiFi	 Satellite
<b>Green Steady</b>	Connected	Connected	Connected	Connected	N/A	N/A	N/A
<b>Green Flashing</b>	Attempting to connect	Flashes after 2 seconds of no connection	Attempting to connect	Attempting to connect	N/A	N/A	N/A
<b>Red Flashing</b>	Not connected	Not Connected Flashes after 5 seconds	No wireless sensor detected	No NMEA detected	N/A	N/A	N/A
<b>Blue Flashing</b>	Updating software	Updating software	Updating software	Updating software	Updating software	Updating software	Updating software
<b>Red Steady</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Depending on the sensors that you connect to your Siren 3 Pro, some of the LEDs may not be applicable (for example, a satellite module is required for satellite connection). If you do not have a system connected that has a status light, the LED will remain off.

There are special lighting patterns for boat builders and dealers not shown here.

# Technical Specifications

## General

<b>Dimensions</b>	6 in x 4 in x 1.95 in	152.4 mm x 101.6 mm x 49.52 mm
<b>Weight</b>	1 lb.	0.5 kg

## Environmental

<b>Temperature (Operating)</b>	+32°F to +100°F	0°C to +38°C
<b>Temperature (Storage)</b>	-4°F to +140°F	-20°C to +60°C
<b>Humidity</b>	0 to 90% RH	

## Electrical

<b>Operating Voltage</b>	9V to 30V DC	
<b>Operating Current</b>	Rated: 400mADC at 12VDC	
	Typical: 80mADC at 12VDC*	
<b>Internal Battery</b>	Up to 24 hours backup power	

\*Note: Current consumption once the internal battery has charged.

## Wireless Communication

Signal	Standard	Antenna
Cellular	4G/5G LTE-M, with fall back to 2G	External
WiFi	Access Point or Client (future functionality)	Internal
Bluetooth	Bluetooth Low Energy (BLE) (future functionality)	Internal
Wireless Sensor	915 and 868 MHz bands	External

## Wired Communication

Interface	Standard	Connector
CAN Bus 1	NMEA 2000	M12 (5 Pin)
CAN Bus 2	Application-dependent protocol (Example: J1939)	M12 (5 Pin)
Expansion Bus	RS-422	M12 (12 Pin) Wiring Cable 2

## Positioning

Technology	Standard	Antenna
GNSS	GPS/GLONASS with SBAS	Internal (External option)

Wired Inputs	Wired Outputs	Wireless Sensors
Battery 1 (+)	Remote Battery Switch	Magnetic Reed Switch (Entry)
Battery 2 (+)	Relay Output 1	Bilge Pump Activity
Battery Gnd (-)	Relay Output 2	Temperature
High Water 1	Relay Output 3	High Water
High Water 2	Relay Output 4	Battery Voltage
Security 1		
Security 2		
Security 3		
Ignition		
Battery Switch On/Off or Bilge Pump		
Shore Power		
Remote Arm/Disarm		

## Device Warnings

Do not immerse the device or batteries in water or other liquids.

Do not install the device where it will be exposed to a heat source or in a high-temperature location, such as in the engine compartment or in direct sun.

Do not install the device where a combustible atmosphere exists. The device is not explosion-proof.

Do not operate the device outside of the temperature ranges specified in the printed or on-line manual.

For indoor use only – must be in an enclosed area.

When storing the device for an extended time period, store within the temperature ranges specified in the printed or on-line manual.

This device is a mobile transmitter and receiver that uses an antenna to send and receive low levels of radio frequency (RF) energy for data communications. To comply with RF exposure compliance requirements, the device should be installed and operated with a minimum of 20 cm (7.87 in.) between the device and your body.

Do not connect devices that cannot tolerate incorrect behavior to digital switching outputs.

## S3Pro (DCM) product compliance with Radio Law

Note: The S3Pro can only be installed in vessels in countries approved by Radio Law

Country	Siren 3 Pro (DCM) Model	
	SM-S3P-917	SM-S3P-924
USA	●	
Canada	●	
Bahamas	●	
Australia	●	
New Zealand	●	
Japan		●

The S3Pro (DCM) should not be operated in a region not covered by appropriate Radio Law.

To prevent unintended operation remove the cable from the circular connector labeled 'HARNESS 1'.



# Technical Specifications (Continued)

## Definitions

- End User refers to the owner of a Siren Marine Device (Siren 3 Pro).
- Service Provider is Siren Marine, Inc.
- Distributor: The Service Provider's representative in the U.S.A. is Siren Marine, 221 Third St., Suite 300, Newport, RI, 02840 U.S.A.
- Service means the communication and access to infrastructure and telecommunication systems needed to alert the End User of an occurrence on board detected by the installed Siren Marine Device.
- Network means the public telecommunications system by which the Siren Marine Service is made available.
- Service Contract Agreement means the contract between the Service Provider, Siren Marine, and the End User.
- Minimum Contract Period means the period during which the End User has agreed to use and pay for the Service.
- Service Charge means the monthly payments the End User pays for the Service during the Contract Period.
- Siren Marine System Server means the servers and other hardware and infrastructure needed in order to provide the Service.
- Siren Marine Device is any and all hardware that is sold by or distributed through Siren Marine, Inc, including, but not limited to, the Siren 3 Pro, Siren 3 Plus, Siren 3, and all accessory sensors that are paired with the Siren Marine base unit.
- Early Termination Fee is a fee of \$9.00 which will be charged to the End User via the Service Provider if or when the End User terminates their Service Agreement with Siren Marine prior to the assigned date.
- Action Plan is a pre-determined plan of events to be acted upon when or if any major event occurs onboard of which you are notified via the Siren Marine Device.

In order to use the Siren Marine System, there must be a current Service Contract Agreement between the End User and the Service Provider. The Service Contract has a minimum Contract Period during which the End User is obligated to pay the monthly Service Charge. The Service Contract Agreement is normally entered online during the installation of the Siren Marine Device. The Service Contract incorporates and includes by reference the current Terms & Conditions for the Siren Marine Device.

### **Scope of Service**

The service includes cellular (GSM) communication between the Siren Marine Device and the Siren Marine System Servers, text (SMS) message communication between the Siren Marine Server and the End User's mobile phone, e-mail communication between the Siren Marine Server and the End User as well as access to the Siren Marine Web Portal through the Internet. The server also includes access to Support during the Contract Period and free software upgrades as well as the right to use any software included in the Service.

### **Service Availability**

The cellular (4G/5G LTE-M) service is available both domestically within the U.S.A. and Internationally. All cellular communication between Siren Marine Device and Siren Marine System Servers is included in the monthly Service Charge. There are no extra roaming charges for systems used outside the U.S.A. The End User hereby acknowledges that the availability of the service may be affected by factors outside the Service Provider's control such as, but not limited to, physical obstructions, availability of Internet connections, routing of data over the Internet, atmospheric conditions and other causes of radio interference and by faults in other telecommunication networks to which the Network is connected. In connection with any such adverse effect on the quality and availability of the Siren Marine Service, the Service Provider shall incur no liability to the End User whatsoever. Notwithstanding such effects to the Services during the Contract Period, the End User shall remain liable for the payment of the Monthly Service Charge.

## **Contract Period**

Each Service Contract Agreement has a defined Contract Period, which commences on the date the first Billing Cycle starts. The Contract Period is defined in the Service Contract Agreement. The End User agrees not to suspend service more than once in a 12-month period.

## **Use of the Built-in SIM Card**

The Siren Marine Device has a built-in SIM card, the title to which belongs to the Service Provider and not the End User. The Service Provider reserves the right to cancel the service and permanently terminate the SIM card if:

- The End User repeatedly fails to pay the monthly service charge agreed during the contract period.
- The system remains unused and the service agreement is not renewed or terminated after a period of six (6) months after the initial contract period has expired.
- The SIM card is abused in any way or is removed from the Siren Marine Device.
- The Service is cancelled, the Siren Marine System may be sent to Service Provider or Distributor for a replacement SIM card. A minimum service fee of US \$100.00 will be charged for this. In case the Siren Marine Device and/or its internal SIM card are lost or stolen, the End User is required to immediately notify the Service Provider.

Until such notification has been received by the Service Provider, the End User is liable for any and all charges incurred by the use of the Siren Marine Device and/or the SIM card.

## **Monthly Service Charge**

The End User is required to pay the monthly Service Charge on time during the Contract Period or as long as the Service Contract Agreement is valid. The monthly Service Charged is automatically billed to End User's credit card on the day or close to the day of original purchase each month (Billing cycle). The End User is required to maintain and enter valid credit card information into the system through the Siren Marine Web Portal, so that the Service Charges can be billed each month.

Upon failure to pay the Service Charge the Service Provider reserves the right to limit the use of the system and/or terminate the Agreement. If terminated in such a way the End User shall remain liable to pay the Early Termination Fee. The Service Provider reserves the right to adjust price, terms and conditions when forced by factors outside its control. A minimum three (3) months' notice applies before any such changes can take effect.

### **The Reinstatement Fee**

The Siren Marine Service Agreement may be terminated before the expiration date of the Contract Period, upon payment to Service Provider with a Reinstatement Fee of US \$9.00.

### **Automatic Continuation of Service Contract**

After the initial Contract Period has ended, the service will be automatically extended until terminated by the End User. After the initial Contract Period, the End User has the right to terminate the Service Contract Agreement by giving notice, in writing, to the Service Provider. A three (3) month termination period shall apply during which the End User is liable to pay the monthly Service Charge.

### **Termination of Contract**

After the Contract Period has ended, the Agreement may be terminated by the End User by giving notice, in writing, to the Service provider or its distributor in the U.S.A. either by mail or by fax. The agreement will be terminated after three (3) months, starting from the first date of the month after the notice has been received by the Service Provider. A confirmation of Termination will be sent by the Service Provider to the End User. The termination notice shall be addressed to the Service Provider or its distributor (In the U.S.A., Siren Marine). For address information see Contact details above under Definitions.

### **Confidentiality**

The Service Provider agrees not to make available to anyone not directly affiliated with the Service Provider any data stored on its Siren Marine Service Servers, unless the End User has agreed so. This includes, but is

not limited to, positions or movements of the boat, information regarding the End User's address, status of alarms and warnings, telephone numbers, e-mail addresses as well as username and password. The End User hereby agrees to the Service Provider's and its Distributor's right to access data stored on the Siren Marine System Servers in order to help the End User in case of support and for trouble shooting as well as for system maintenance and software upgrades. The Service Provider and Distributor reserves the right to contact the End User, using the contact information stored on the Siren Marine System Servers, in order to notify the End User of any potential problems, improvements or other things that affect the quality and security of the Service. The Service Provider will not knowingly make data stored on the servers available to persons not affiliated with Siren Marine except as agreed to by the End User and except as required by applicable law.

### **Liabilities**

The Service Provider is not liable for any goods stolen or damages incurred as a result of the Service not being available. Siren Marine is not liable for defects in the Siren Marine Device or in the Service. The End User recognizes that factors outside the Service Providers control may affect the quality of the Service. Furthermore, it is the responsibility of the End User to act on notifications sent by the Siren Marine Device and for maintaining an up-to-date Action Plan online so that alarms and warnings can be sent to the right person(s). It is also the End User's full responsibility to inform any person(s) entered in the action plan of the desired action, should an alarm or warning be received. The Service Provider takes no responsibility for any data stored on the Siren Marine System Servers by the End User that may be offensive, incorrect or fraudulent.

### **Privacy Notice / Notice at Collection**

Please scan QR code for Siren Privacy Policy



# Yamaha Outboard Compatibility

The Siren 3 Pro will work with any boat power type but to receive additional Siren features (automated maintenance tracking, predictive maintenance, and more) you'll need a Yamaha DEC outboard using Helm Master EX controls. See the chart below for outboards that are compatible.

\* indicates shaft length, and could be 'L, X, U, E, or N'

True Model	Platform	Beginning Prod. Year	PID (Serial Number)
F150LCA F150XCA LF150XCA	2.8L	2018	6HP* 1000965 6HR* 1000420
F150LSA F150LSA2 F150XSA F150XSA2 LF150LSA2 LF150XSA F150LCB F150XCB LF150LCB LF150XCB	2.8L	2022	6LM* 1000001 6LN* 1000001 6LU* 1000001 6LV* 1000001
F175LCA F175XCA LF175XCA	2.8L	2018	6HS* 1000167 6HT* 1000050
F200XCA F200LCA LF200XCA	2.8L	2018	6DV* 1008411 6DW* 1004581

True Model	Platform	Beginning Prod. Year	PID (Serial Number)
F200LSA F200LSA2 F200XSA F200XSA2 LF200XSA LF200XSA2 F200LCB F200XCB LF200XCB	2.8L	2022	6LH* 1000001 6LJ* 1000001 6LP* 1000001 6LR* 1000001
F225NCA	4.2L	2018	6CL* 1004251 6CM* 1000915
F225XCB F225NCB F225NCB2	4.2L	2021	6KK* 1000001 6KL* 1000001
F250UCA F250XCA F250NCA LF250UCA LF250XCA	4.2L	2018	6CG* 1015976 6CH* 1003506
F250XSB F250XSB2 F250NSB F250NSB2 LF250XSB LF250XSB2 F250XCB F250XCB2 F250NCB F250NCB2 LF250XCB LF250XCB2	4.2L	2021	6KD* 1000001 6KE* 1000001 6KH* 1000001 6KJ* 1000001

True Model	Platform	Beginning Prod. Year	PID (Serial Number)
F300UCA F300XCA F300NCA F300NCA2 LF300UCA LF300XCA	4.2L	2018	6CE* 1048305 6CF* 1013876
F300XSB F300XSB2 F300USB2 F300NSB F300NSB2 F300NSB7 LF300XSB LF300XSB2 FL300USB2 F300XCB F300XCB2 F300NCB F300NCB2 LF300XCB LF300XCB2	4.2L	2018	6KA* 1000001 6KB* 1000001 6KF* 1000001 6KG* 1000001
F350NCC2 F350XCC	5.3L	2018	6AW* 1016679 6AX* 1007719



True Model	Platform	Beginning Prod. Year	PID (Serial Number)
F350XSA LF350XSA F350XSA2 LF350XSA2 F350USA LF350USA F350USA2 LF350USA2 F350NSA F350NSA2	4.3L	2024	6ML* 1000001
XF425NSA XF425NSA2 XF425NSA7 XF425NSB XF425NSB2 XF425NSB7	5.6L	2018	6GR* 1000001 6GS* 1000001
XF450XSA XF450XSA2 XF450NSA XF450NSA2	5.6L	2022	6KN* 1000001 6KP* 1000001

# Yamaha Helm Master Compatibility

All Helm Master EX control boxes support compatibility with additional Siren features. For legacy Helm Master controls, all models manufactured 2017 or later are compatible with these features.

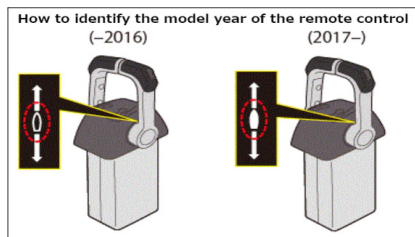
## Identifying a Supported Helm Master EX Model

- If your Helm Master control is an EX model, it may resemble one of the following:



## Identifying a Supported Helm Master Legacy Model

- To see if your Helm Master legacy control is a supported model (model year 2017 or later), check the handle for a filled-in icon.
- Still not sure? Contact your Yamaha dealer for assistance in identifying your Helm Master model.



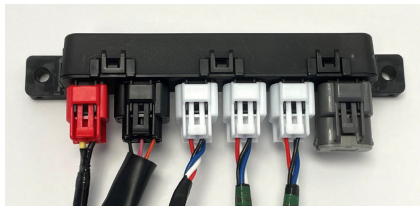
## Yamaha CLP Connection

In addition to monitoring actual engine usage, the Siren 3 Pro can communicate with the Yamaha Command Link Plus (CLP) system in order to perform system scans (BPS), creating timely Maintenance Notifications. The connections are simple, use accessories common to the boat rigging process, and are outlined below. The only requirements are an empty device port on a Multi-Hub, the appropriate length pigtail wire, and a 6YM-83553-00-00 adapter plug.

### Connect to Multi-Hub

Locate an empty/unused port on the boat's Multi-Hub adapter. If all device ports are full, you will have to add an additional Multi-Hub device before proceeding, please refer to the appropriate rigging procedures guide for instructions.

In the empty device port identified previously, install the appropriate length 6Y8 pigtail needed to reach the Siren Pro device from the Multi-Hub.




## Connect to Siren 3 Pro

Plug the rectangular (white) connector on the 6YM-83553-00-00 cable to the 6Y8 pigtail open end. Install the 6YM-83553-00-00 round end (black) into the Siren 3 Pro “CAN2” port.



## BPS Results Notification

LED Indicators	 Satellite
<b>Green Solid</b>	N/A
<b>Green Flash</b>	N/A
<b>Red Flash</b>	N/A
<b>Green/Red Flash</b>	N/A
<b>Blue Flash</b>	Updating Software
<b>Blue Solid</b>	BPS Scan Result is OK
<b>Red Solid</b>	BPS Scan Result is NG
<b>Blue/Green Flash</b>	BPS Scan Checking
<b>Blue/Red Flash</b>	BPS Scan Time Out
<b>Blue/Green/Red Flash</b>	N/A
<b>Nothing</b>	CLP Off Mode





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