



### Siren Connected Boat Wireless Sensor Guide



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### **Meet The Wireless Sensors**

Siren Marine Wireless Sensors are easy to install and ideal for hard-to-access areas.



Easy to Install



Peel & Stick Mounting



Monitor Temperature



IP67 Water Resistant



Up to 2-Year Battery Life



Up to 100 Foot Range





#### **READ BEFORE STARTING**

### Important information on maintenance and installation:

- Keep all wired connections to battery terminals and bilge pumps clean and tight.
- Battery life expectancy is two years, however we recommend replacing the internal battery of your wireless sensor every year.
- The wireless sensors should be installed on a smooth flat surface.
- Siren Marine adhesive strips are very strong and cannot be easily repositioned. Before you press and hold it for 30 seconds, be sure the wireless sensor is aligned correctly and is communicating with your Siren Marine main device.

#### Mounting with Screws:

If your surfaces are rough, dirty or prone to high heat or humidity, install your wireless sensor with the supplied bracket and screws.

- Remove the wireless sensor from its supplied mounting bracket to expose the screw holes.
- Align the mounting bracket in the desired location. Be sure to drill a pilot hole to avoid any cracking or chipping on the surface.
- Secure the mounting bracket using the supplied mounting screws.
- Snap the wireless sensor into the mounting bracket.

Note: Mounting wireless sensors onto metal material (i.e. metal doors and walls) may degrade the signal to the Main Device.

#### Mounting with Adhesive Strip:

- Make sure the surface is clean and dry.
- Peel the protective cover off the adhesive strip on the back of the mounting bracket.
- Align the mounting bracket in the desired position and press evenly with your palm.
- Hold in place for at least 30 seconds.
- Snap the wireless sensor into the mounting bracket.
- Plug the wireless sensor into the wireless module and tighten the two hex screws.

Note: Mounting wireless sensors onto metal material (i.e. metal doors and walls) may degrade the signal to the Main Device.

### 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, assure solid cellular connectivity by noting the indicator lights on the Main Device or in the Siren Connected Boat App.

On a Siren 3 Series Device, the cellular LED indicator (leftmost) should be solid 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 solid green.

On the MTC, the amber light should be solid, not flashing.

### 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.

- 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.
- 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.



### **Battery Installation**

IMPORTANT: Your wireless sensor comes with a CR2430 internal battery which will need to be installed after pairing the wireless sensor with the main device.

#### Please be sure to follow the steps below:

- Attach sensor tail (if applicable to sensor type).
  - Remove the four screws on the back of the wireless module and remove sensor back.
- Insert the CR2430 battery into the battery holder and wait for four red light flashes (see page 9). Be sure that the positive (+) side of the battery is facing up.
- Replace the back of the sensor and tighten the four Phillips screws. Use care when closing up the wireless module. Make sure to tighten the screws and that all seals and O-rings are secure and in place.

NOTE: Do not over-tighten.





Once you have installed the coin cell battery, wait approximately 10-15 seconds to see a red light flash four times near the bottom right of the battery as shown in this image. If you do not see this red flash appear, please contact our customer support team for assistance.



### **Battery Replacement**

The wireless sensor will notify you via the Siren Connected Boat App when the internal battery voltage is low.

- Remove the wireless sensor from the mounting bracket.
- Remove the four screws on the back of the wireless module and remove sensor back.
- Slide the depleted battery out of the battery holder and replace with a new CR2430 battery with the positive (+) side facing up.
- Replace the back of the sensor and tighten the four Phillips screws. Use care when closing up the wireless module.
- Make sure to tighten the screws and that all seals and O-rings are secure and in place.
- Place the wireless module back into the mounting bracket.

### **Bilge Pump Sensor**

Monitor bilge pump activity and receive alerts if your boat is taking on water.

- Follow the Wireless Sensor Pairing steps on pages 10 & 11.
- There are two ways for the wireless sensor to monitor bilge pump activity:
  - 1. Connect the **positive (+)** and **negative (-)** leads from the sensor directly to the **positive (+)** and **negative (-)** leads of your bilge pump.
  - 2. Connect the **positive** (+) and **negative** (-) leads from the sensor directly to the bilge indicator light.
- Insert the Bilge Pump Tail into the wireless module and tighten the two hex screws.
- Secure the sensor by using the supplied Mounting Bracket.

NOTE: This sensor is polarity sensitive.



### ! Entry Sensor

Protect against unauthorized entry. Perfect for securing lockers, doors and hatches.

- Follow the Wireless Sensor Pairing steps on pages 10 & 11.
- Mount the Wireless Entry Sensor Mounting Bracket to a hatch, locker or other entry point.
- Mount the Open/Close Magnet directly opposite the wireless module using the supplied Adhesive Strip. The magnet should be no further than 1/4in (6.35mm) away from the sensor.
- Secure the Wireless Entry Sensor into the Mounting Bracket.

NOTE: When the hatch, locker or entry point is opened, a notification will be sent to the Siren Connected Boat App and an audible alarm can be triggered.



### - + Battery Sensor

Monitor additional batteries without a hardwired connection to the main device. This sensor can monitor batteries up to 60V.

- Follow the Wireless Sensor Pairing steps on pages 10 & 11.
- Connect both the positive (+) and negative (-) leads of the Battery Sensor directly to the positive (+) and negative (-) posts on your battery.
- Plug the Battery Tail into the wireless module and tighten the two hex screws.
- Secure the Wireless Battery Sensor using the supplied Mounting Bracket.

NOTE: This sensor is polarity sensitive. Notifications will be sent to the Siren Connected Boat App if the voltage drops below or exceeds user-defined levels.



### High-Water Sensor

#### Detects if there is water in the bilge.

- Follow the Wireless Sensor Pairing steps on pages 10 & 11.
- Mount the High-Water Wireless Sensor in an area above the High-Water Line in the bilge.
- Plug the High-Water Tail into the wireless module and tighten the two hex screws.
- Secure the water-sensing end of the tail at the desired height in the bilge using the supplied Adhesive Strip.

NOTE: Notifications will be sent to the Siren Connected Boat App if the water level in the bilge rises above the water sensor.



### Temperature Sensor

### Monitor the temperature of your cabin, engine room, fridge, etc.

- Follow the Wireless Sensor Pairing steps on pages 10 & 11.
- The Wireless Temperature Sensor works with or without the detachable Temperature Probe:
  - 1. To monitor the temperature without the **Temperature Probe**, simply mount the wireless module to the area to be monitored.
  - 2. To monitor the temperature of a specific area (e.g. engine room or inside a fridge), plug the Temperature Tail into the wireless module and tighten the two hex screws.
- Secure the Wireless Temperature Sensor using the supplied Mounting Bracket.

NOTE: Notifications will be sent to the Siren Connected Boat App if the temperature falls below or exceeds the preset levels.



### **Technical Specifications**

#### Model Numbers:

Battery Sensor: SM-WLS3-BATTBilge Pump Sensor: SM-WLS3-BILG

Entry Sensor: SM-WLS3-ENTR

High-Water Sensor: SM-WLS3-HIWS
 Temperature Sensor: SM-WLS3-TEMP

Wireless Sensor Module: 2.0in (5.08cm) x 2.7in

(6.9cm) x 0.6in (1.5cm)

Wireless Connection: 910MHz radio frequency

Range: Up to 100 feet

Battery: CR2430 Lithium Cell, est. life 2 years

Warranty: 2-Year Limited Warranty

**Mounting:** Mounting bracket with adhesive mounting strip and mounting screws included

Requirements: Requires Siren Marine main device

and Service Plan

Compliance: FCC, EU

Water Resistance: IP67

### **Legal Information**



This device complies with Part 15 of the FCC regulations:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

This device contains: FCC ID: 2ADHKR30M IC: 20266-R30M

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CAN ICES- 3(B)/NMB-3(B)

Designed in Newport, RI Made in USA





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# **Meet The Wireless Sensors**

Siren Marine Wireless Sensors are easy to install and ideal for hard-to-access areas.



Easy to Install



Peel & Stick Mounting



Monitor Temperature



IP67 Waterproof



2-Year Battery Life



Up to 100 Foot Range



# A READ BEFORE STARTING

# Important information on maintenance and installation:

- All wireless sensors should be checked and inspected on a regular basis.
- Keep all wired connections to battery terminals and bilge pumps clean and tight.
- Battery life expectancy is two years, however we recommend replacing the internal battery of your wireless sensor every year.
- The wireless sensors should be installed on a smooth flat surface.
- Siren Marine adhesive strips are very strong and cannot be easily repositioned. Before you press and hold it for 30 seconds, be sure the wireless sensor is aligned correctly and is communicating with your Siren Marine main device.

### Mounting with Screws:

If your surfaces are rough, dirty or prone to high heat or humidity, install your wireless sensor with the supplied bracket and screws.

- Remove the wireless sensor from its supplied mounting bracket to expose the screw holes.
- Align the mounting bracket in the desired location. Be sure to drill a pilot hole to avoid any cracking or chipping on the surface.
- Secure the mounting bracket using the supplied mounting screws.
- Snap the wireless sensor into the mounting bracket.

### Mounting with Adhesive Strip:

- Make sure the surface is clean and dry.
- Peel the protective cover off the adhesive strip on the back of the mounting bracket.
- Align the mounting bracket in the desired position and press evenly with your palm.
   Hold in place for at least 30 seconds.
- Snap the wireless sensor into the mounting bracket.
- Plug the wireless sensor into the wireless module and tighten the two hex screws.

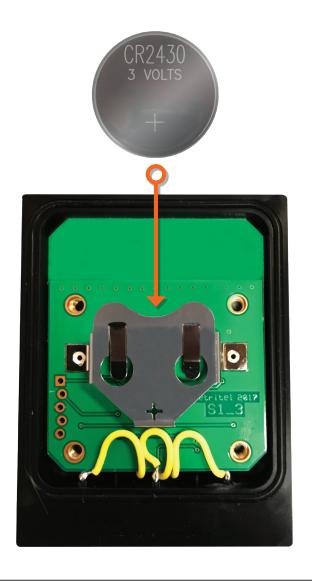
# - + Battery Installation

Important: Your wireless sensor comes with a CR2430 internal battery which will need to be installed prior to pairing the wireless sensor with the main device.

### Please be sure to follow the steps below:

- Attach sensor tail (if applicable to sensor type).
- Remove the four screws on the back of the wireless module and remove sensor back.
- Insert the CR2430 battery into the battery holder. Be sure that the **positive** (+) side of the battery is facing up.
- Replace the back of the sensor and tighten the four Phillips screws. Use care when closing up the wireless module. Make sure to tighten the screws and that all seals and O-rings are secure and in place.

Note: Do not over-tighten.





### **Battery Replacement**

# The wireless sensor will notify you via the Siren Marine App when the internal battery voltage is low.

- Remove the wireless sensor from the mounting bracket.
- Remove the four screws on the back of the wireless module and remove sensor back.
- Slide the depleted battery out of the battery holder and replace with a new CR2430 battery with the **positive (+)** side facing up.
- Replace the back of the sensor and tighten the four Phillips screws. Use care when closing up the wireless module.
   Make sure to tighten the screws and that all seals and O-rings are secure and in place.
- Place the wireless module back into the mounting bracket.

### Pair Wireless Sensors to Siren Marine Main Device

- Ensure the battery has been installed in the wireless sensor (see instructions on page 8).
- Pair the wireless sensors prior to mounting in its permanent location.
- Go to the Settings page on the Siren Marine app and select Add Wireless Sensor.
- Scan the QR Code on the back of your wireless sensor.
- Select the wireless sensor type.
- In the dialog box, rename the sensor description and select Add.
- To add additional sensors, repeat above steps.

Note: All fields must be filled in or selected.

## Bilge Pump Sensor

Monitor bilge pump activity and receive alerts if your boat is taking on water.

- There are two ways for the wireless sensor to monitor bilge pump activity:
  - Connect the positive (+) and negative (-) leads from the sensor directly to the positive (+) and negative (-) leads of your bilge pump.
  - 2. Connect the **positive (+)** and **negative (-)** leads from the sensor directly to the bilge indicator light.
- Insert the Bilge Pump Tail into the wireless module and tighten the two hex screws.
- Insert the wireless sensor battery.
- Pair the Wireless Module to the main device.
- Secure the sensor by using the supplied Mounting Bracket.

**Note:** This sensor is polarity sensitive.



## ! Entry Sensor

Protect against unauthorized entry. Perfect for securing lockers, doors and hatches.

- Mount the Wireless Entry Sensor Mounting
   Bracket to a hatch, locker or other entry point.
- Pair the Wireless Module to the main device.
- Mount the Open/Close Magnet directly opposite the wireless module using the supplied Adhesive Strip. The magnet should be no further than 1/4in (6.35mm) away from the sensor.
- Secure the Wireless Entry Sensor into the Mounting Bracket.

**Note:** When the hatch, locker or entry point is opened, a notification will be sent to the Siren Marine app and an audible alarm can be triggered.





### **Battery Sensor**

Monitor additional batteries without a hardwired connection to the main device. This sensor can monitor batteries up to 60V.

- Connect both the positive (+) and negative (-) leads of the Battery Sensor directly to the positive (+) and negative (-) posts on your battery.
- Plug the Battery Tail into the wireless module and tighten the two hex screws.
- Pair the Wireless Module to the main device.
- Secure the Wireless Battery Sensor using the supplied Mounting Bracket.

**Note:** This sensor is polarity sensitive. Notifications will be sent to the Siren Marine app if the voltage drops below or exceeds user-defined levels.



## High-Water Sensor

Detects if there is water in the bilge.

- Mount the High-Water Wireless Sensor in an area above the High-Water Line in the bilge.
- Plug the High-Water Tail into the wireless module and tighten the two hex screws.
- Pair the Wireless Sensor to the main device.
- Secure the water-sensing end of the tail at the desired height in the bilge using the supplied Adhesive Strip.

**Note:** Notifications will be sent to the Siren Marine app if the water level in the bilge rises above the water sensor.



## **Temperature Sensor**

Monitor the temperature of your cabin, engine room, fridge, etc.

- The Wireless Temperature Sensor works with or without the detachable Temperature Probe:
  - 1. To monitor the temperature without the **Temperature Probe**, simply mount the **wireless module** to the area to be monitored.
  - 2. To monitor the temperature of a specific area (e.g. engine room or inside a fridge), plug the Temperature Tail into the wireless module and tighten the two hex screws.
- Install the sensor battery and tighten the four Phillips head screws on the back of the sensor.
- Pair the Wireless Module to the main device (choose external if using tail, internal if not).
- Secure the Wireless Battery Sensor using the supplied Mounting Bracket.

**Note:** Notifications will be sent to the Siren Marine app if the temperature falls below or exceeds the preset levels.



## **Technical Specifications**

#### **Model Numbers:**

- Battery Sensor: SM-WLS3-BATT
- Bilge Pump Sensor: SM-WLS3-BILG
- Entry Sensor: SM-WLS3-ENTR
- High-Water Sensor: SM-WLS3-HIWS
- Temperature Sensor: SM-WLS3-TEMP

#### **Wireless Sensor Module:**

2.0in (5.08cm) x 2.7in (6.9cm) x 0.6in (1.5cm)

#### Wireless Connection:

917MHz radio frequency

#### Range:

Up to 100 feet

#### **Battery:**

CR2430 Lithium Cell, rated 2 years

## **Technical Specifications**

#### Warranty:

2-Year Limited Warranty

#### Mounting:

Mounting bracket with adhesive mounting strip and mounting screws included

#### Requirements:

Requires Siren Marine main device and Service Plan

#### **Certifications:**

IP67 Waterproof, FCC, EU



#### sirenmarine.com

Technical Support: 401.619.4774 855.75.SIREN (855.757.4736) 221 Third St., Suite 200, Newport, RI 02840

Notice: Siren Marine Wireless Sensors are not cross compatible. Each wireless sensor is compatible only with a specific series of Siren Marine Main Devices. Sensor compatibility is denoted on sensor packaging and on the sensor itself. For instance, wireless sensors compatible with the MTC feature just the Siren Marine logo on the front of the sensor. Wireless sensors compatible with the Siren "3" Series feature the Siren Marine logo with a superscript "3". If you have any questions regarding wireless sensor compatibility, please contact our support team at support@sirenmarine.com or by phone at (855) 757-4736.