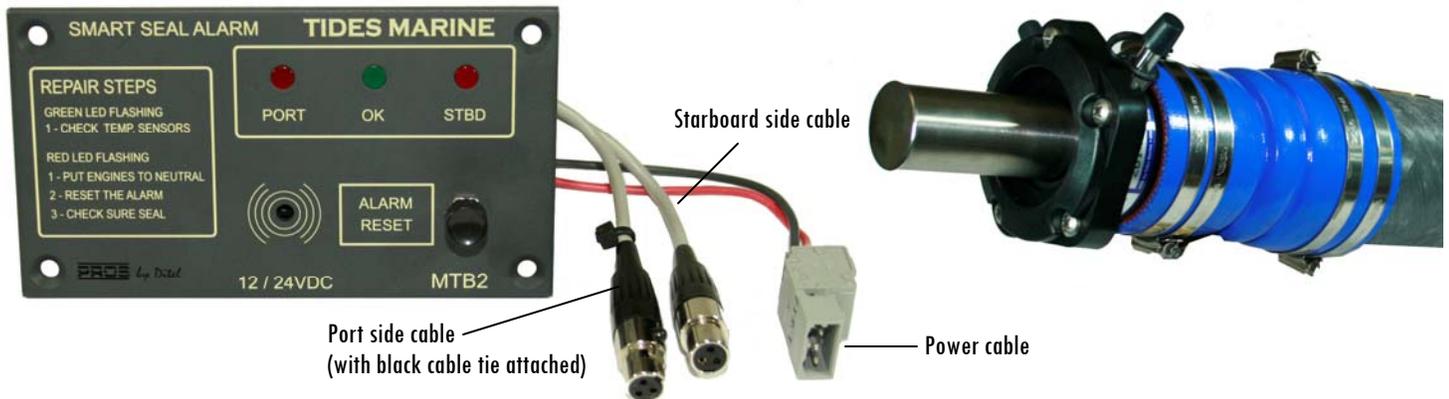


TIDESMARINE

Smart Seal Temperature Alarm System Generation II

Installation Instructions



Preparing for Installation



Overall height = 2.56" (65mm)
Depth = 2.25" (57mm) (once connector is plugged in)

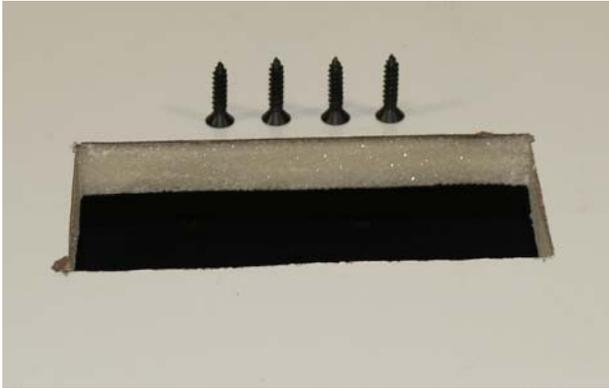
Overall width = 4.725" (120mm)

Locate a clean, flat, dry surface you will modify to accept the Smart Seal control panel.

Check behind the surface you will be cutting. This area should be free of any cables, wires, plumbing or other obstructions. Make sure there is sufficient backing material to accept the 4 installation screws.

The control panel is designed to be flush mounted. Use the template provided with the product to mark the surface you will be cutting.

2



Drill a **3/8"** (10mm) hole somewhere within the rectangular shape drawn on the flat surface.

Insert the blade of a handheld jig saw (reciprocating saw) into the **3/8"** (10mm) hole and begin to remove the material.

Sensor Ring - SureSeal™ - Port Side

1



Remove the water pick-up hose and plastic cap from the water injection fitting that brings water from the engine's raw water cooling system to the SureSeal™.

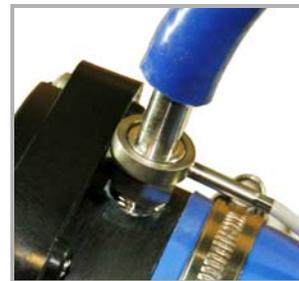
3



Insert the control panel into the finished hole and secure it with the 4 screws provided.

Sensor Ring - SureSeal™ - Port Side

2



Place the temperature sensor ring at the end of this cable over the water injection fitting on the port side of the SureSeal™. Slide the temperature sensor ring down over the injection fitting until the sensor ring passes onto the shoulder of the injection fitting. The fit should be snug.

3



Press the plastic cap and the water pick-up hose back onto the injection fitting until it abuts the sensor ring, holding the ring in place. Tighten both hose clamps over the hose on the injection fitting.

Sensor Ring - SureSeal™ - Port Side

4



1/2"
(13mm)



"Dress" the sensor cable back from the injection fitting on the SureSeal™ (or the water injection hose) to the control panel. Do not over tighten cable ties (not supplied): doing so may restrict water flow. If you have to drill a hole in the mounting surface through which to pass the sensor cable, the hole diameter should be 1/2" (13mm) because the quick connect fitting on the control panel end of the sensor cable is approximately 1/2" in diameter (13mm).

The unit comes with 33 feet (10 mtrs) of sensor cable. Additional 33-foot (10 mtr) sections are available. You can add a maximum of TWO extra sensor cables per sensor, so that the total length of sensor cable is not more than 99 feet (30 mtr).

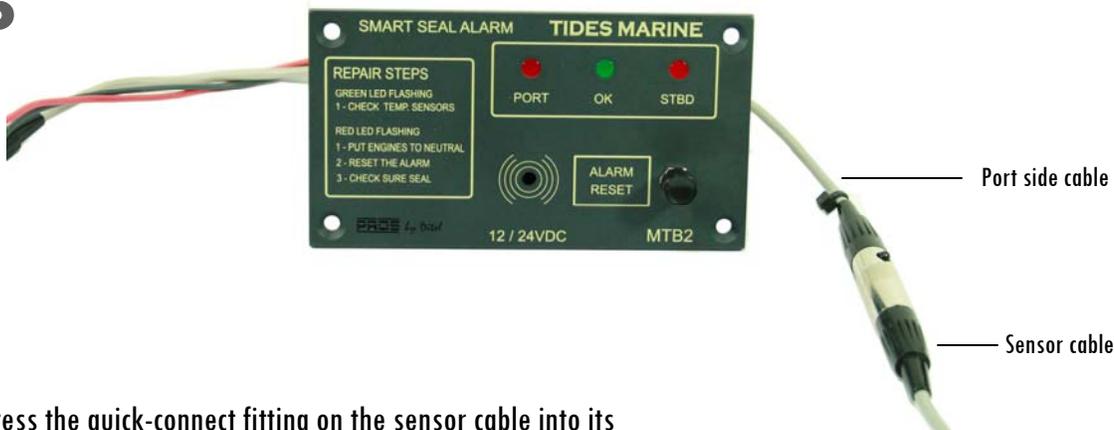


Sensor cable
33 ft (10 mtr)



Extension cable
33 ft (10 mtr)

5

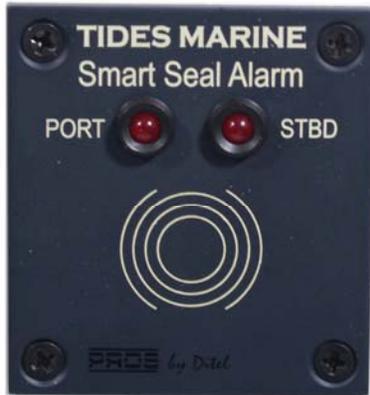


Press the quick-connect fitting on the sensor cable into its corresponding female fitting attached to the back of the control panel. This control panel fitting should have a black cable tie attached to the wire just above the quick-connect fitting.

Follow the same steps for the starboard side using the quick-connect cable WITHOUT a cable tie.

Optional Remote Panel - Flush Mount

1



Overall width = 2.365" (60mm)

Overall height = 2.56" (65mm)

Depth = 2.75" (70mm) (once connector is plugged in)



The twin engine remote panel is also designed to be flush-mounted.

Check behind the surface to which you are securing the remote panel. This area should be free of any cables, wires, plumbing or other obstructions. Make sure there is sufficient backing material to accept the 4 installation screws.

Use the template provided with the product to mark the surface you will be cutting.

2

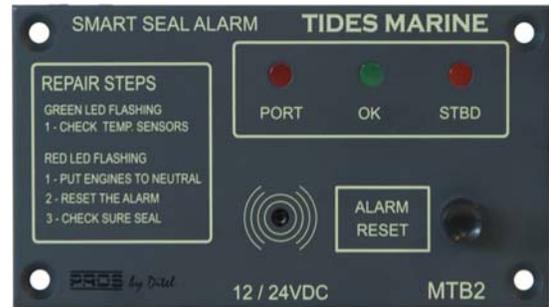
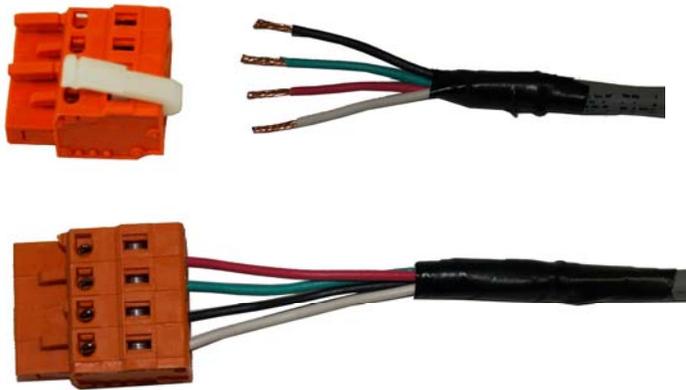
Drill a **3/8"** (10mm) hole somewhere within the rectangular shape drawn on the flat surface.

Insert the blade of a handheld jig saw (reciprocating saw) into the **3/8"** (10mm) hole and begin to remove the material.

3

Insert the remote panel into the finished hole and secure it with the 4 screws provided.

4



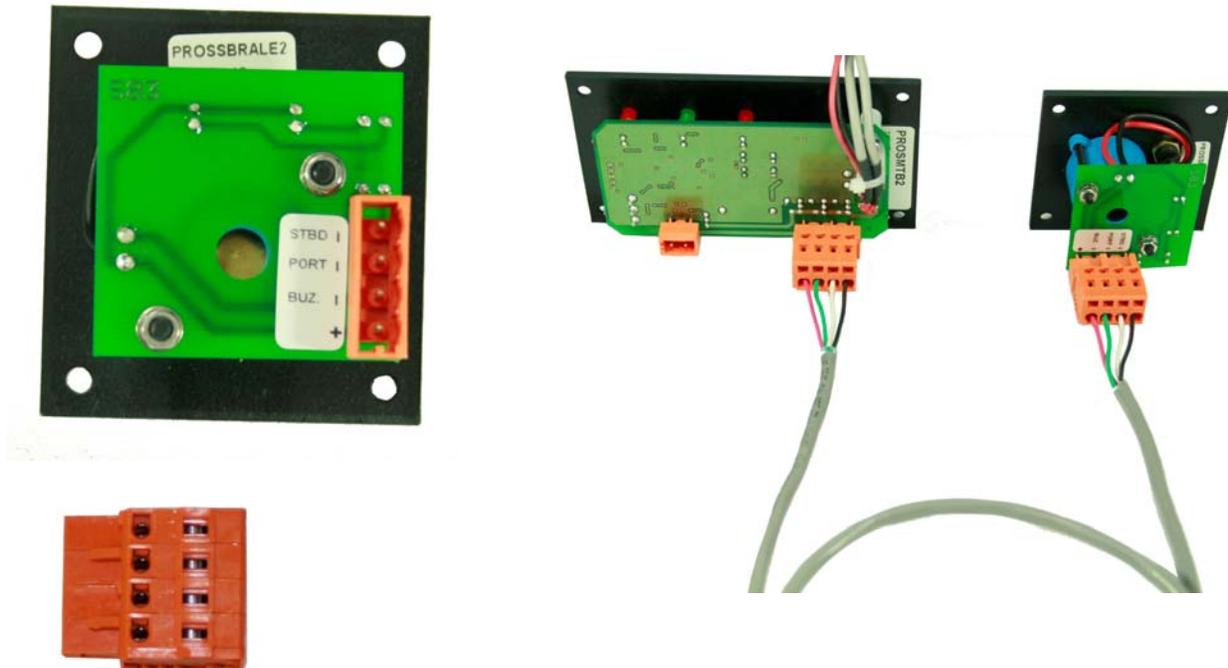
To connect the remote panel to the control panel, run sufficient 20-gauge 4-core wire (not included) between the two locations. Once the wire has been cut to length, trim each end of the wire to accept the appropriate quick-connect fitting (provided).

The 20-gauge (4-core) wire connects to the remote panel.

The 20-gauge (2 core) wire connects to the siren.

To strip wire: Strip 1/4" (6mm) of insulation from the ends of the wires. This should be sufficient to fit into the quick-connect fitting.

5



Press the quick-connect fitting into the remote panel. Press the other end into the control panel.

6

Optional Siren - Regular Mount

1



Height = 5.58" (142mm)

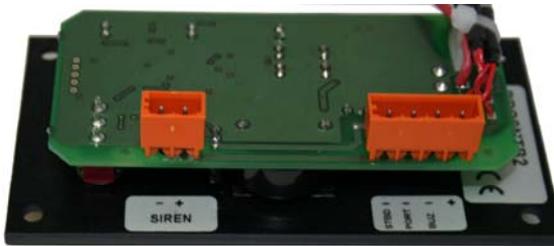
Depth = 2.55" (65mm)

Width = 3.70" (94mm)

The siren accessory is not a flush-mount installation.

Check behind the surface to which you are securing the siren. Make sure it is free of any cables, wires, plumbing or other obstructions.

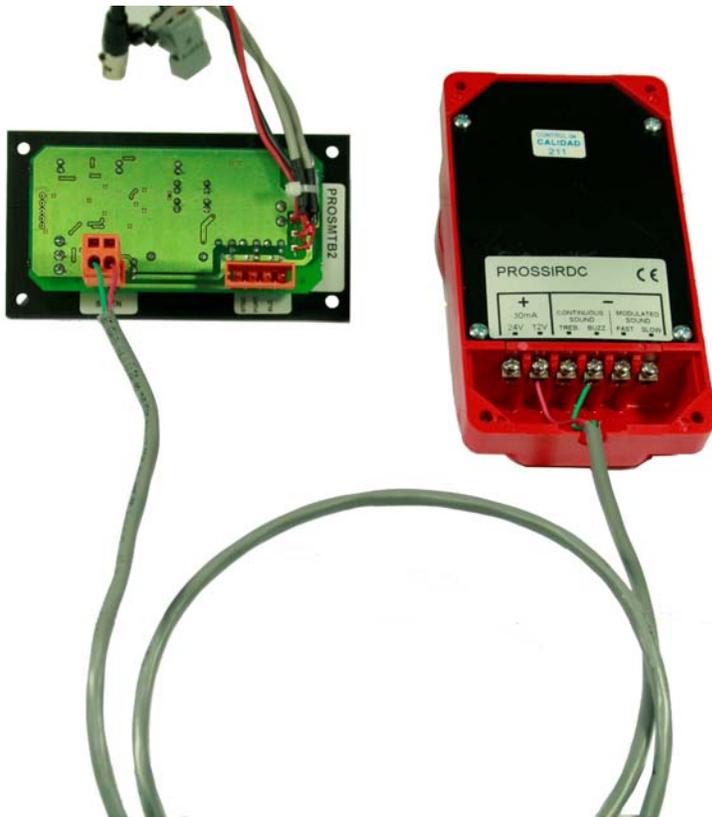
2



Connect the siren to the control panel using 20-gauge 2-core wire between the two locations. Once the wire has been cut to length, strip 1/4" (6mm) of insulation from each end of the wire to accept the appropriate quick-connect fitting (provided).

Optional Siren - Regular Mount

3



Press the corresponding quick-connect fitting into the control panel.

4

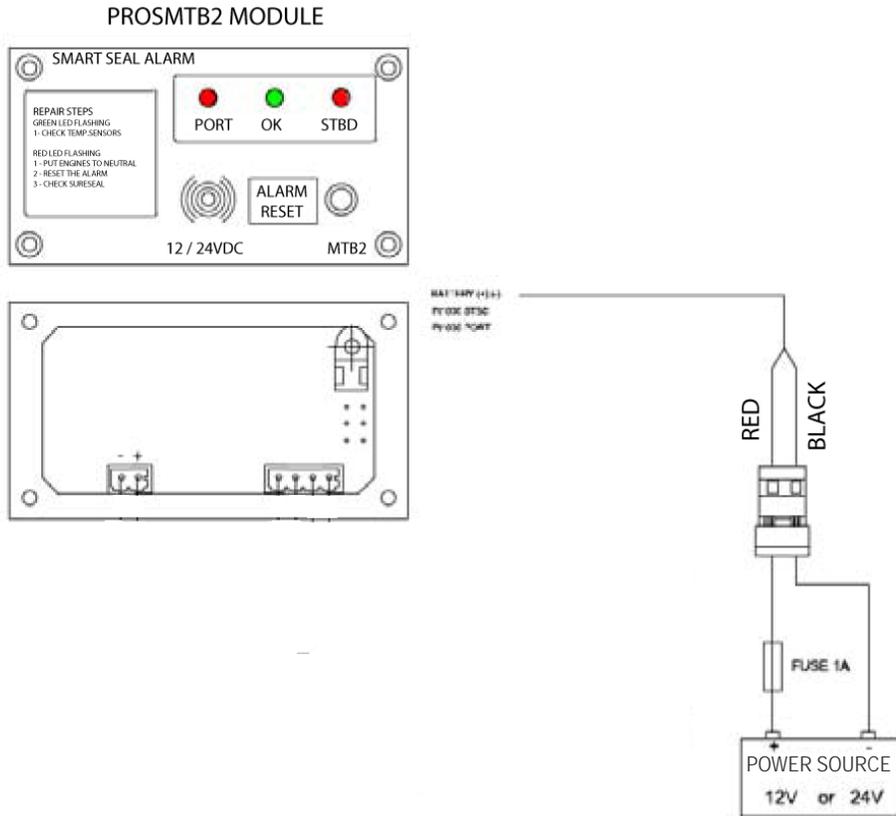


Strip the wires on the opposite end to connect them to the back of the siren. There are four (4) sound settings as shown by the label on the back of the siren.

Connect the negative (green) lead to one of the four sound settings and the positive (red) lead to the correct voltage input: 24 volts or 12 volts DC, depending on your set-up.

The set-up shown here indicates that the “continuous buzz” setting has been selected.

Power to the Control Panel



You will need a length of 20-gauge twin-core wire to connect the control panel to a 12v or 24v power supply.

Connect the ends of the 20-gauge twin-core wire into the appropriate quick-connect fittings (provided). Make sure your harness contains a 1 amp fuse installed as shown in the diagram.



IMPORTANT:

Tides Marine recommends that the Smart Seal control panel be connected to a constant 12v or 24v DC battery source to ensure that the unit has a power supply at all times that the vessel is being operated.

Do not take the power supply from the engine ignition switch, as the Smart Seal will not be able to monitor a trailing shaft if the engine is shut off.

System Test



Turn the power on to the Smart Seal main panel.

Check to make sure the green LED "OK" light on the control panel is illuminated.

Notes

TIDES MARINE

3251A S.W. 13th Drive

Deerfield Beach, FL 33442

Toll Free: (800) 420-0949 General Phone: (954) 420-0949

Fax: (954) 420-0945 Order Fax: (954) 420-5234

www.tidesmarine.com Email: customerservice@tidesmarine.com