Rope Leak Detector Expansion Manual







Important Safety Instructions

PLEASE READ AND FOLLOW ALL SAFETY INSTRUCTIONS BEFORE PROCEEDING

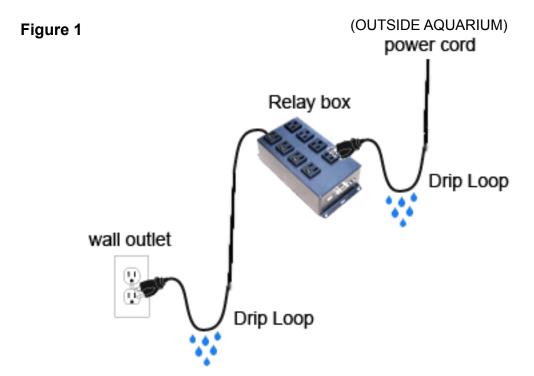
DANGER Discontinue use if any signs of water are present in any electronic/electrical device.

WARNING – To avoid injury to yourself and others, safety precautions should always be observed.

DANGER – Never attempt to service any electronic /electrical equipment before unplugging the device from the outlet. Risk of electrical shock if care is not taken. Special care should always be taken when operating any aquarium equipment. If the plug or receptacle gets wet, NEVER unplug it from the outlet. Always use the fuse or circuit breaker that supplies power to the device. Disconnect it and then examine for water presence.

- If device shows any sign of abnormal appearance, discontinue use.
- Never operate the device if plugs or cords are damaged, torn, ripped or malfunctioning.

NOTE: A "drip loop" should be arranged and position your aquarium stand and tank to the side of the aquarium to avoid the device or power receptacle from getting wet power receptacle. Please refer to Figure 1 below.



Rope Leak Detector Expansion Module Unit



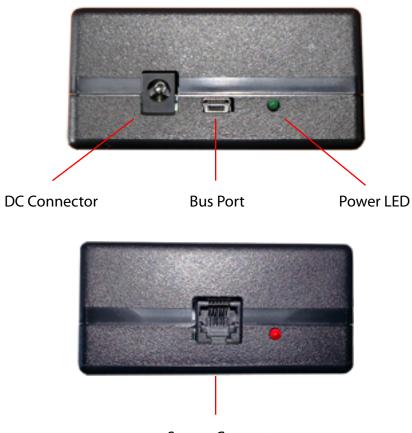
Contents:

- Rope Leak Detector Expansion
- Rope Leak Sensor
- 12V DC Power Supply
- Expansion Bus Cable

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Rope Leak Detector Expansion Module Getting Started

Connecting your Reef Angel Rope Leak Detector Expansion Module



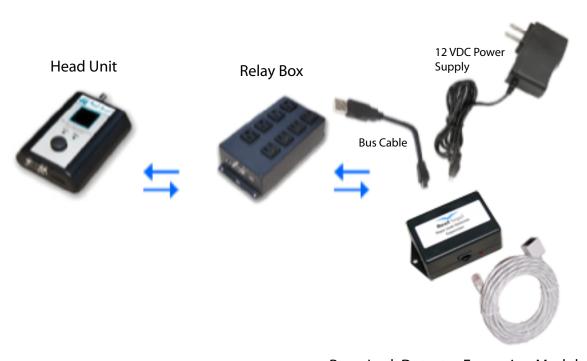
Sensor Connector

- 1. 12V DC is required by the Rope Leak Detector Expansion Module to ensure proper functionality.
- Use the 12V DC power supply and plug it into the DC connector.
- 2. Plug the Rope Leak Sensor in the sensor connector.
- 3. Use the bus cable to connect the Rope Leak Detector Expansion Module in to the Reef Angel System.

Adding your Rope Leak Detector Expansion Module directly on your Relay Box

- 1. Plug the bus cable to the bus port of the Rope Leak Detector expansion module.
- 2. If you are only using one expansion module you can plug the other end of the bus cable straight into the expansion port of the main relay box. Please refer to Figure 3 below.

Figure 3



Rope Leak Detector Expansion Module

Adding your Rope Leak Detector Expansion Module with other Reef Angel Devices.

3. If your are connecting more than one expansion module, you will need an expansion hub, which offers 8 additional usb ports to connect more expansion modules. Please refer to Figure 4 below.

Figure 4

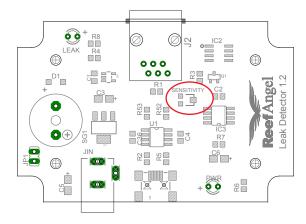


Preparing and uploding the code to the Reef Angel controller.

- 1. Start your Arduino Software using your computer.
- 2. Open the Rope Leak Detector Expansion test code by going to the menu File -> Example Codes and selecting CustomMainScreen_RopeLeakDetector.
- 3. Upload the code to your Reef Angel Controller.

Adjusting the sensitivity

- 1. Open the enclosure
- 2. Locate the sensitivity trimpot



3. Using a screw driver, turn the trimpot clockwise for more sensitivity and counter clockwise for less sensitivity