

Salinity 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.

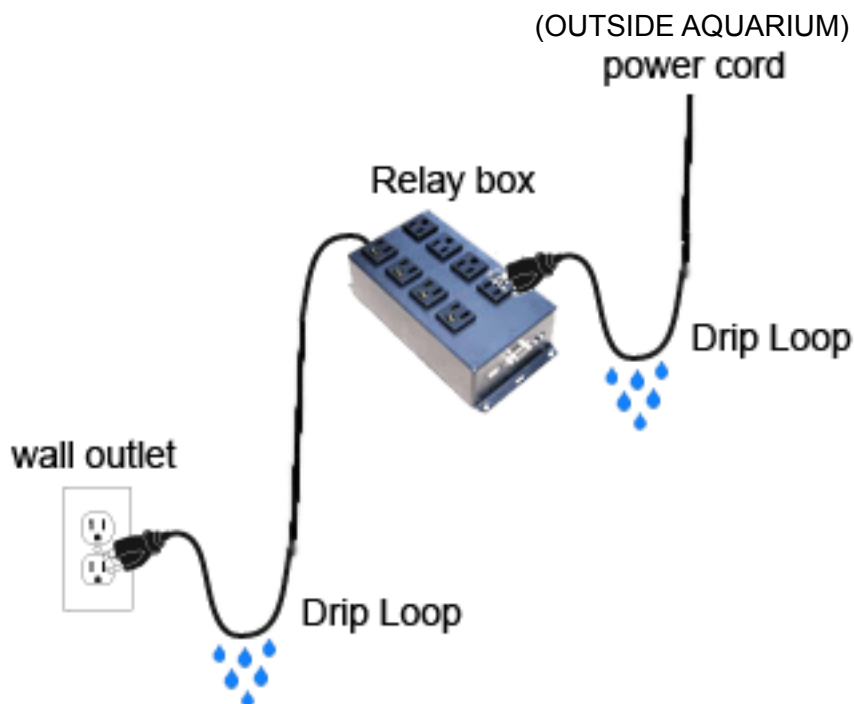
Special care should always be taken when operating any aquarium equipment.

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.

Figure 1



Salinity Expansion Module Unit



Contents:

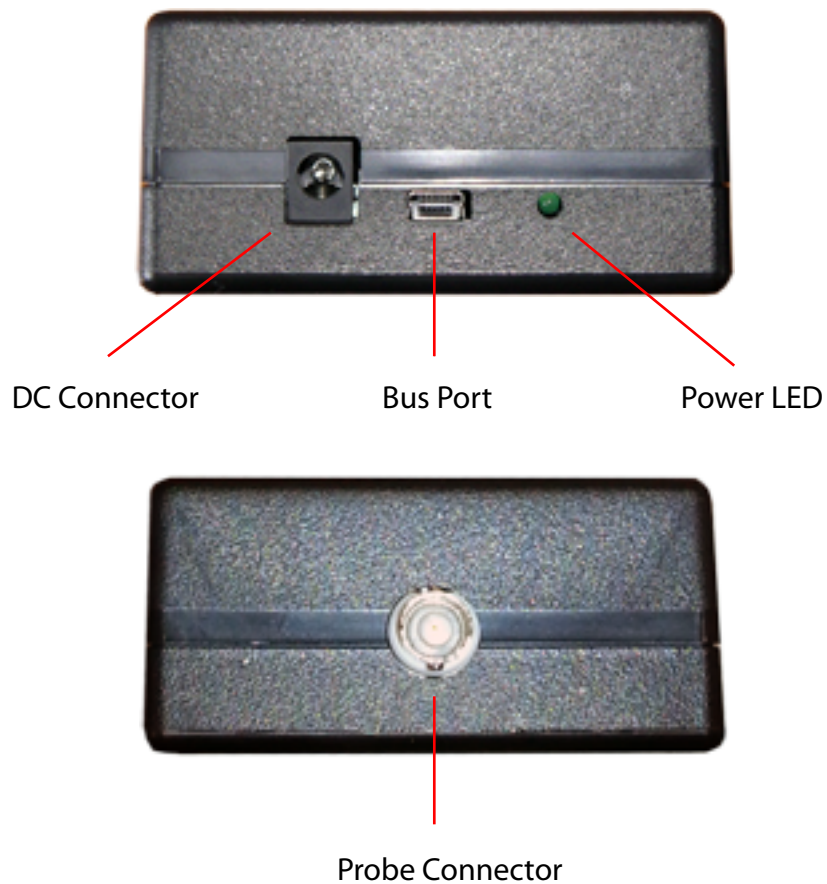
- Salinity Expansion Module
- Salinity Probe
- 12V DC Power Supply
- Expansion Bus Cable

The product and the information contained herein are subject to change without notice. This manual may not, in whole or in part, be reproduced or transmitted in any form either electronically or mechanically, including photocopying and recording, without the express written consent of Reef Angel.

Salinity Expansion Module

Getting Started

Connecting your Reef Angel Salinity Expansion Module



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

Adding your Salinity Expansion Module directly on your Reef Angel Relay Box

1. Plug the bus cable to the bus port of the Salinity 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.

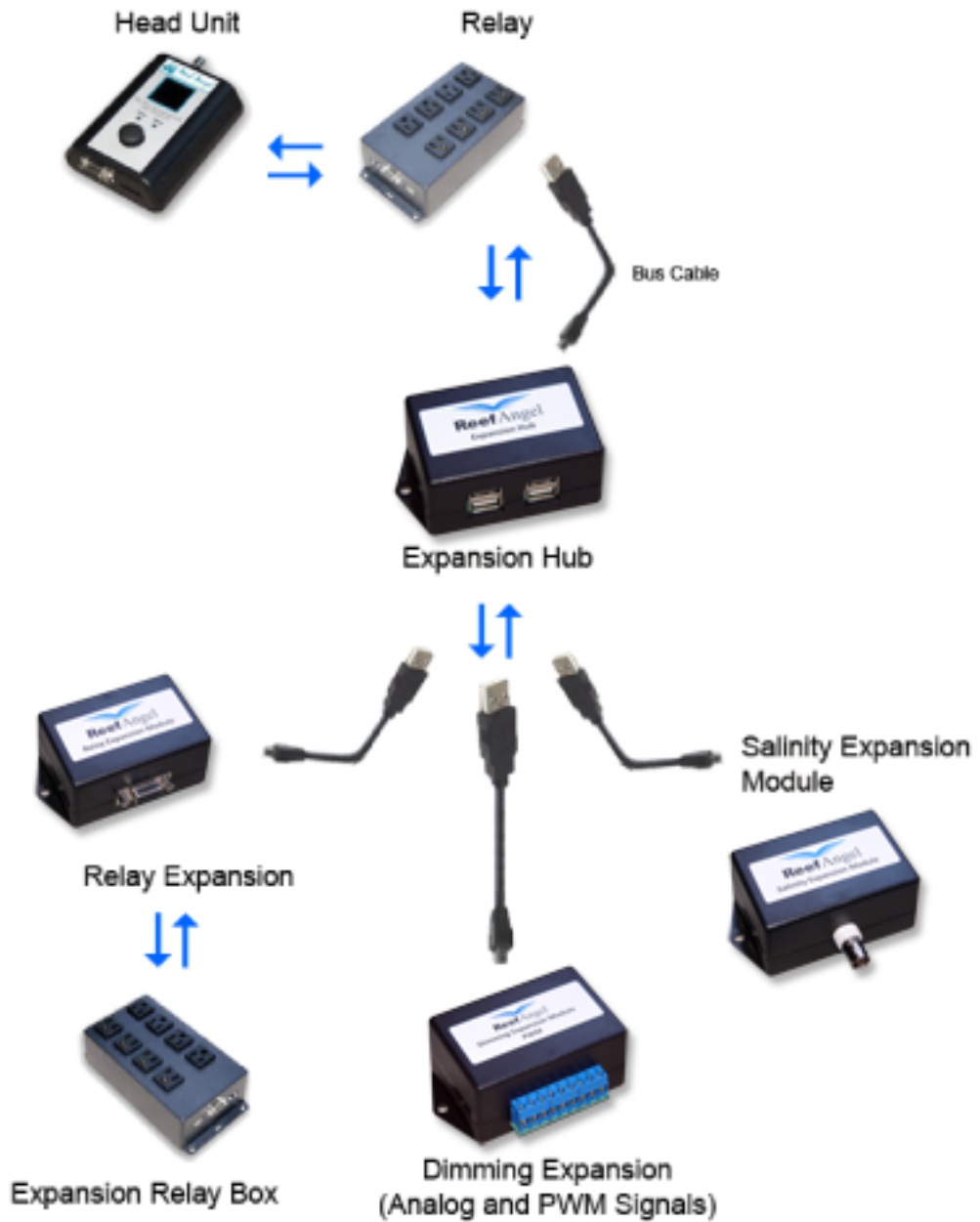
Figure 3



Adding your Salinity Expansion Module with other Reef Angel Devices.

3. If you 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 uploading the code to the Reef Angel controller.

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

Calibrating Your Reef Angel Salinity Expansion Module

1. Using the joystick, navigate to “Sal Calibration”
2. Place the salinity probe into a standard solution of 35ppt
3. Let the probe stabilize and press the “Ok” button