Setup Instructions for Davy Jones' Skimmate Locker, Digital I/O version

1. Connect skimmer collection cup drain tubing to the Locker's hose barb union fitting.

2. Insert pressure sensor tube into the gasket in the Locker lid. The depth of the sensor depends on the safety factor you desire for skimmer overflows. Pushing the sensor tube all the way down will leave more space in case the skimmer rapidly fills, then drains into the locker before being shut off by the switch. The trade-off is that you'll have to empty the locker chamber more often.

3. Fill cap with carbon (new Lockers come pre-filled).

4. Connect the I/O cable to your aquarium controller. The Neptune-specific cable (minidin-8) plugs directly into the AquaController or Apex I/O port. Similarly, the Profilux minidin-6 plugs into its I/O port. If you are using the bare-wire version, connect the red & black wires to your controller's input channel. For example, you would connect the red wire to a numbered pin and the black wire to the common pin on a Neptune Systems' Apex breakout box. For the ReefKeeper (Digital Aquatics), use an SW5, SL1, or SL2, and their switch cable, and connect per their instructions. For the Vertex Cerebra, see notes below.

5. Program your controller to recognize the new switch[1]. The boxes are wired to be normally closed; i.e., when unpressurized, the switch reports a closed, or activated, state.

6. Plug in skimmer pump to the controller's outlet box.

7. Test the system by blowing on the pressure sensor tube; this will cause the switch to open and report to the controller the open state. This will signal your controller to turn off the associated pump outlet.

For example, the following code can be used on the Neptune Apex for typical auto-shutoff function:

Fallback OFF
Set OFF
If SW1 CLOSED Then ON

This will tell the Apex to turn the associated outlet OFF if the switch is open (pressurized state; locker is full), and keep the outlet ON while the switch is unpressurized (i.e., locker is empty). Note that on older Apex firmware revisions, the switch may be named 'Switch1'

Vertex Cerebra Installation Notes

The sensor connects to one of the level inputs on the multibar. On the controller, add a rule on the outlet where the Skimmer pump is plugged. On "designation", use the outlet for the skimmer. On "function", use the level input where the sensor is connected. Set the outlet to AUTO.