

# ***Aquaculture Systems Technologies, LLC.***

## **AST Backwash Controller**

### **Optional External Alarm Relay Installation Instructions using Opto 22 Relay**

- 1) This controller has been specially modified with a third relay for the installation of an external alarm.
- 2) The connector labeled **#9** is the hot wire (+) providing power to the external alarm.
- 3) The **#0** wire is the neutral wire in the controller. All of the neutral wires should be connected to the **#0** wire.

### **Optional External Alarm Relay Installation Instructions using 12 volt mechanical Relay**

- 1) This controller has been specially modified with a third relay for the installation of an external alarm using a Normally open (NO) or Normally closed (NC) mechanical relay. This relay has two NO and two NC tabs.
- 2) The orange jumper wire from the controller should be connected to the **#0** position on the relay.
- 3) The wire coming from pin **#4** on the control board should be connected to the **#1** position on the relay.
- 4) The NO tabs on the relay can be tabs **#2** and **#4** and tabs **#6** and **#8**.
- 5) The NC tabs on the relay can be tabs **#3** and **#4** and tabs **#7** and **#8**.
- 6) The device used to monitor the system will determine whether you should use the NC or NO tabs of the relay.