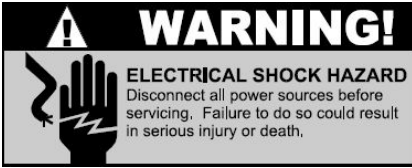


**Manufactured By:**

Alderon Industries  
151 16<sup>th</sup> Street South, Hawley, MN 56549  
●Phone: 218-483-3034 ●Fax: 218-483-3036  
●Web: www.alderonind.com



Warranty void if panel is modified.

**Notice:**

This electrical panel must be installed and serviced by a licensed electrician in accordance with the NEC NFPA-70, state and local electrical codes. Cable connections must be liquid tight in NEMA 4X enclosures. Nema 4X enclosures ensure a degree of protection against corrosion, dust, rain, & splashing water from any angle.

**Installation**

**Note:** Conduit sealant must be used to prevent moisture and gasses from entering the panel. If splicing is required use liquid tight junction box and connectors. **Do not mount junction box inside sump or basin. Run control switches in separate conduit from pump and line power.**

1. Determine a good location for mounting the control panel.
2. Use the mounting devices supplied with the panel to mount the panel in an upright position, high enough so the panel will not be subject to submersion.
3. Determine the number, size, and location of the conduit locations on the enclosure. Note: control switches require separate conduit from power and pump cables.
4. Drill proper size holes for conduit connectors.
5. Attach cable/conduit connectors to enclosure.
6. Identify and label each wire before pulling through conduit/connectors.
7. Pull cables though conduit/connectors.
8. Tighten connectors/apply conduit sealant.
9. Make connections per panel schematic. Ensure incoming pump and control voltages match that of the panel and pump motors.
10. Power up the panel. After making final adjustments, ensure the panel is operating properly.

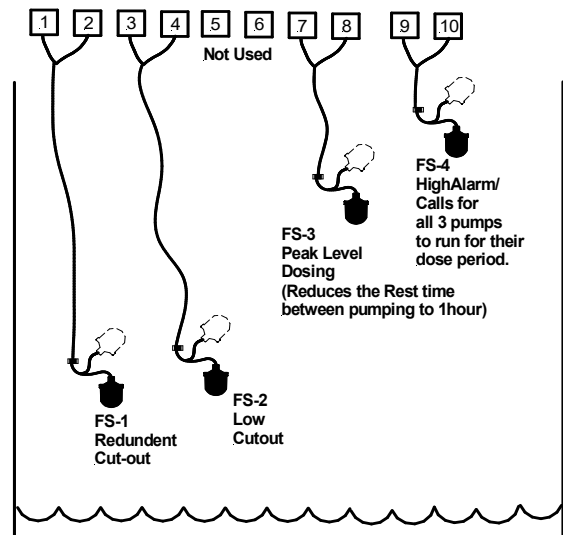
**Sequence of Operation**

**Hand Mode:**

When a HOA switch is placed in “Hand” mode the corresponding pump will be called to run. Placing any of the switches into hand mode will override auto mode control for all pumps. When all switches are taken out of hand mode the rest timer will reset to zero and be initiated.

**Auto Mode:**

When the HOA switches are place into “auto” mode the float switches control pump dose & rest timers. These timers will then control when and for how long each pump will run. As long as the bottom floats are up this dose/reset sequence will occur; pump1 dose/reset/pump2 dose/reset/pump3 dose/reset/pump1 dose... The dose period can be adjusted for each pump and the rest period between dosing is shared. If the level gets high enough to lift FS3 the rest time between dosing will be reduced to 1 hour. If the level gets high enough to lift the high alarm float then all pumps will be called to run for their corresponding dose periods. If a switch is taken out of auto mode, it will be skipped and the next available pump will be called to dose.



**Float Diagram**

# Controller Display & Setting

**Screen#1:**  
HOME

**Screen#2:**  
Pump Run Time Totals

**Screen#3:**  
Inputs/Outputs displayed

**Screen#4:**  
Dose/Rest Timers

Ajusting the dose/rest timers

**Step#1:**  
Scroll to screen#4

**Step#2:**  
Press & hold the shift button.

**Step#3:**  
While holding the shift button, press & release button 4 once.

**Step#4:**  
Release the shift button.

**Step#5:**  
Now you may use the left/right buttons to move between timers & the up/down button for changing the values.  
Note: Timer settings are in seconds. When finished adjusting all timers press the OK button to save, then use button 4 to scroll to the HOME screen.

To scroll through the 4 main screens push buttons 1 or 4.