

# 331 LIFT STATION CONTROL PANEL



Multi-voltage, Three Phase, Duplex Pump Control Panels  
With Seal Fail, Elapsed Time Meters, Pump HOA Switches,  
and Pump Run Lights Mounted on Inner Door



# INSTALLATION INSTRUCTIONS

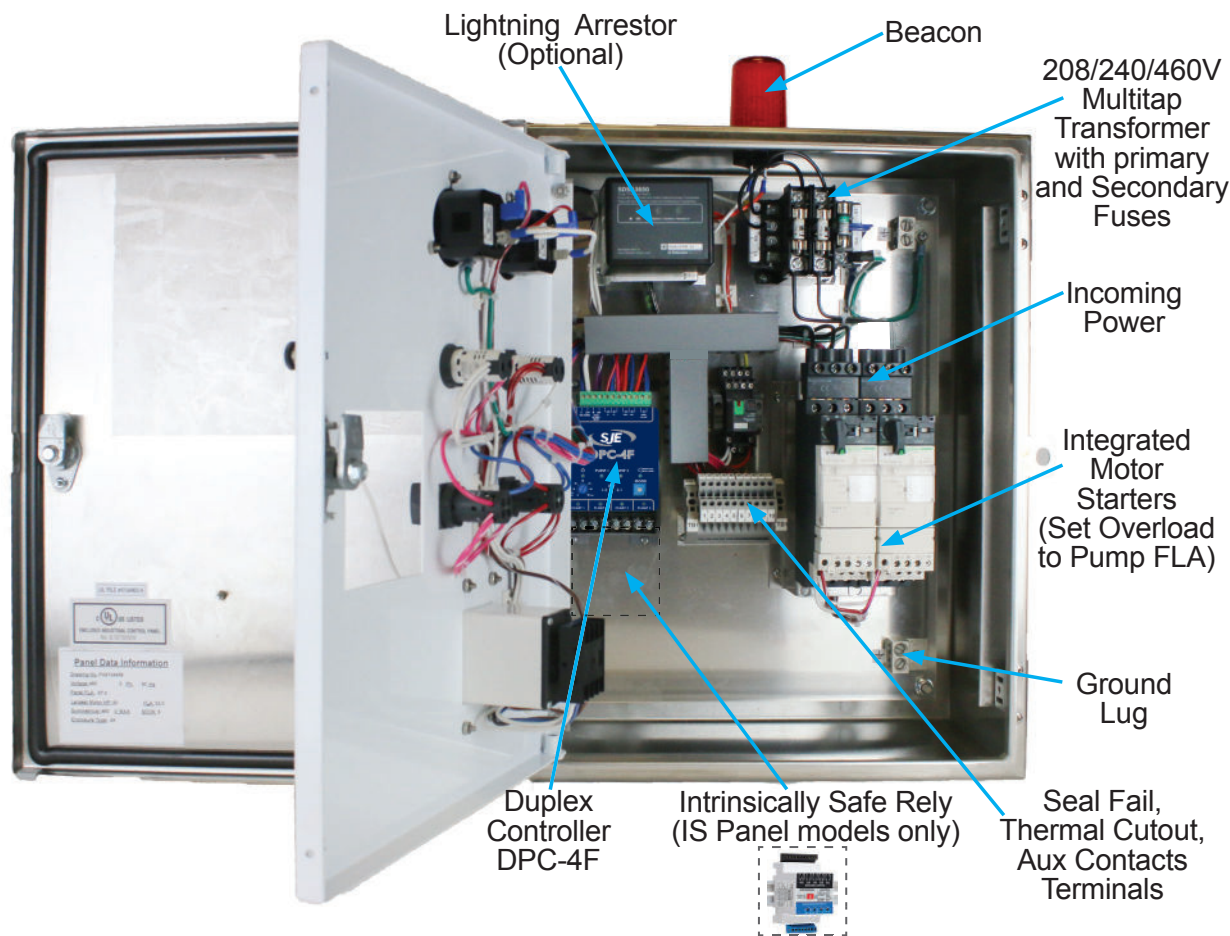
This control panel must be installed and serviced by a licensed electrician in accordance with the National Electric Code NFPA-70, state and local electrical codes.



1. Mount control panel using integral mounting flanges.
2. Intrinsically Safe Panel Models: Determine conduit entrance for intrinsically safe wiring. Entrance location must be within intrinsically safe barrier area. A separate rigid metallic conduit must be used to enclose the conductors of the intrinsically safe control circuit.

When installed according to these instructions and Article 504 of the National Electric Code (NFPA 70) this control panel provides intrinsically safe sensing circuits for interface with Class 1, Division 1, Groups C and D hazardous locations. Intrinsically safe wiring must be in accordance with the enclosed control drawing of the specific intrinsically safe relay manufacturer.

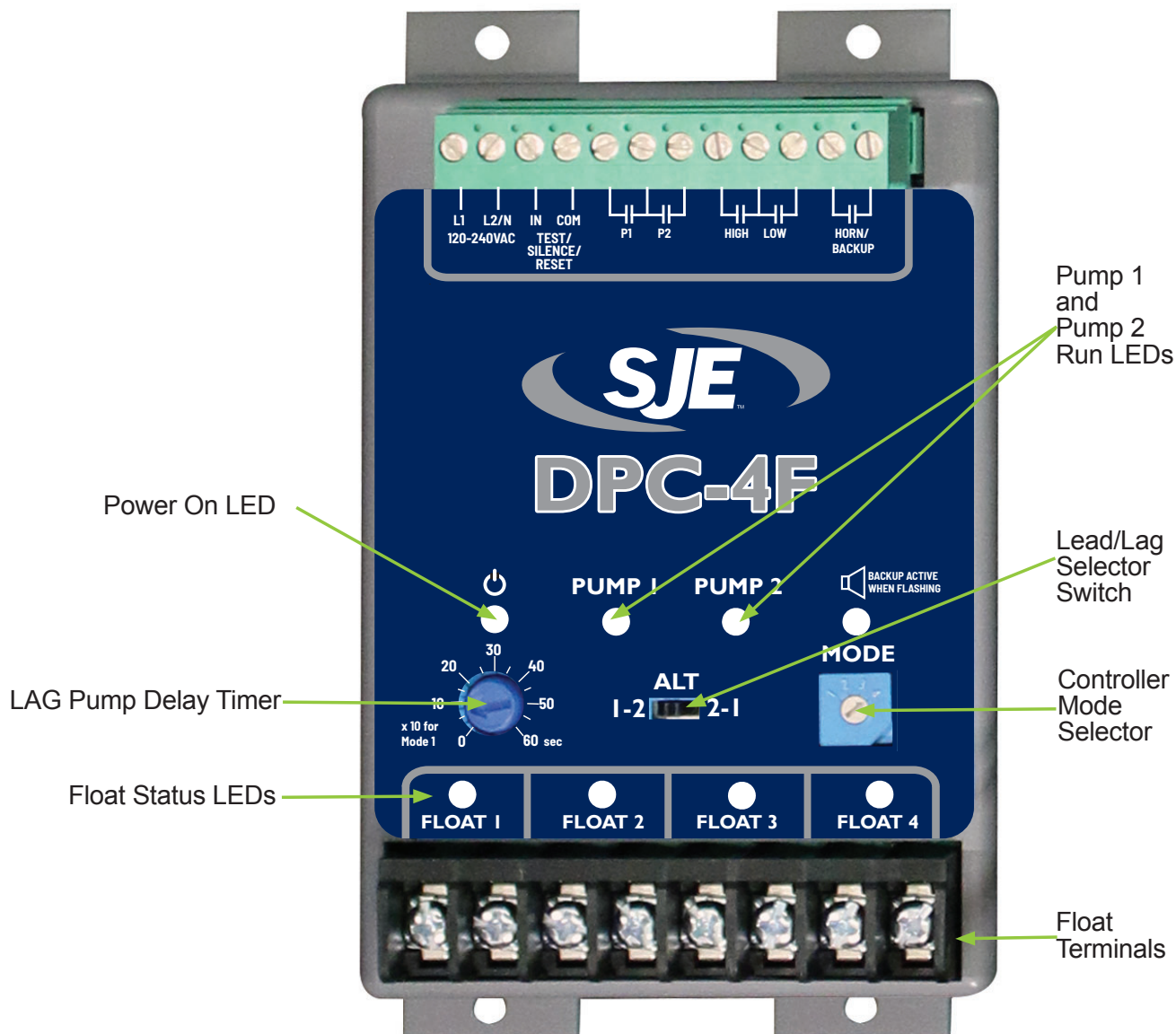
3. Determine conduit entrance for non-intrinsically safe wiring. Cables must be outside of the intrinsically safe barrier area. NOTE: Ensure the power supply voltage and phase are the same as the pump motor being installed. If unsure, refer to the pump identification plate for voltage/phase requirements.
4. Drill holes and attach liquid-tight conduit connectors.
5. Bring cables into the control panel and wire according to the field wiring section of the schematic.
6. Seal conduits using approved sealant to prevent gases from entering the control panel.



Inner Door components:

Elapsed Time Meter, Pump Run Lights, Pump HOA Switches, and Dual Pump Seal Fail Module.

# DPC-4F DUPLEX PUMP CONTROL FOUR FLOAT CONTROLLER



## MODE 4: Four Float Duplex Operation

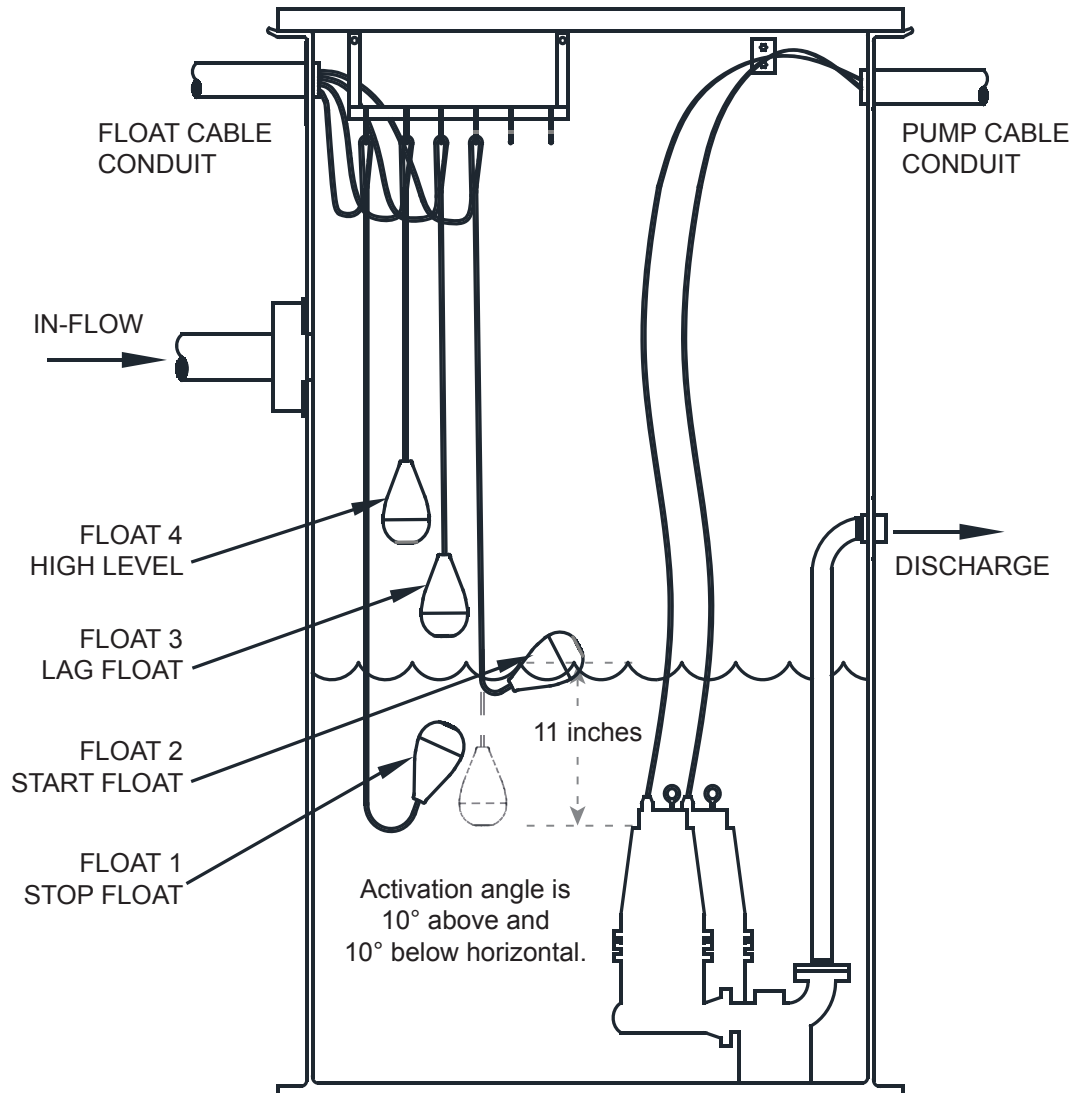
Basic Operation:

Pump turns on when Float 2 closes. Lag pump turns on when Float 3 closes. Pumps turn off when Float 1 opens.

Timer Dial: Controls lag pump delay time (0—60 seconds).

Float Out-of-Sequence: If a float closes or opens in the incorrect sequence, the alarm will activate. The Out-Of-Sequence fault will clear if the failed float returns to the correct position.

Typical setup for a duplex lift station



**WARNING:**  
Keep sensors clear of pumps, pipes, and motor cables.  
Ensure that floats cannot reach pump suction.  
Do not run pump and float cables in the same conduit.

**PRIMEX® ONE-YEAR LIMITED WARRANTY**

One-Year Limited Warranty.

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Warranty void if panel is modified.

