Three phase, duplex alternating pump control with override.

The Model 322 control panel is designed to control two 208/240/480VAC three phase pumps in industrial and commercial water and sewage systems. The controller is provided with a pump selector switch that can be set to alternate the pumps to equalize wear or to call either pump to activate first with the other pump to activate in lag condition. If an alarm occurs, the alarm activates the audible-visual system. The alarm conditions include: high water, float out-of-sequence, pump fail-to-run, seal failure (optional). Common applications include: lift stations, pump chambers, and irrigation systems.

**PANEL COMPONENTS**

1. **Enclosure** measures 14 x 12 x 6 inches (35.56 x 30.48 x 15.24 cm) NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
2. **IEC Motor Contactors** control pumps by switching electrical lines.
3. **Multi-Tap Transformer** (208/240/480 VAC primary or 600 VAC primary transformer) provides 120V control/alarm voltage.
4. **Motor Protective Switches** provide adjustable overload, branch circuit protection and pump disconnect.
5. **Duplex Controller** provides pump control, alternation and alarm
   a. HOA switches for manual control Hand/Off/Automatic
   b. Control Power ON/OFF switch
   c. Power ON green LED indicator
   d. Float status red LED indicators
   e. Float push-to-test buttons
   f. Pump selector switch: Alt, 1-lead 2-lag, 2-lead 1 lag
   g. Auxiliary alarm contacts Form-C
   h. Terminal block: incoming power
   i. Terminal block: float switches
   j. Option: adjustable seal failure circuits and red LED indicators (must select option 5E when ordering)
6. **Ground Lugs**
   NOTE: Schematic Diagram is located inside the panel on enclosure cover.

**STANDARD ALARM PACKAGE**

7. **Red Alarm Beacon** provides 360° visual check of alarm condition.
8. **Alarm Horn** provides audible alarm warning (83 to 85 decibel rating).
9. **Exterior Alarm Test/Normal/Silence Switch** allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
   NOTE: other options available.

**FEATURES**

- Touch safe circuit board housing and low voltage 12 VDC float circuits
- Constant alarm (field programmable to flash)
- Alarm automatic reset (field programmable to manual alarm reset)
- Float out-of-sequence detection with automatic float reassignment.
- Pump fail-to-run detection (field programmable to deactivate)
- Controller protected by four auto resettable fuses, no fuse replacement
- Three second lag pump delay time, prevents simultaneous pump start-up
- Standard package includes three 20’ control switches or EZconnex® float system
- Complete step-by-step installation instructions
- Five-year limited warranty

SJE RHOMBUS.
1-888-DIAL-SJE • 1-218-847-1317
1-218-847-4617 Fax
email: customer.service@sjeinc.com
www.sjerhombus.com

California Prop 65 requires the following: WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

SEE REVERSE SIDE FOR ORDERING INFORMATION.
SEE PRICE BOOK FOR LIST PRICE.
**MODEL 322**

**ALARM PACKAGE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>List Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>select options or no alarm package</td>
<td>$35.00</td>
</tr>
<tr>
<td>1</td>
<td>alarm package (includes test/normal/silence switch, fuse, red light, &amp; horn)</td>
<td>Base</td>
</tr>
</tbody>
</table>

**ENCLOSURE RATING**

- W = Weatherproof, NEMA 4X (engineered thermoplastic)

**PUMP FULL LOAD AMPS**

<table>
<thead>
<tr>
<th>208/240/480V</th>
<th>600V</th>
</tr>
</thead>
<tbody>
<tr>
<td>001 = 1.0-1.6 FLA</td>
<td>005 = 1.0-1.6 FLA</td>
</tr>
<tr>
<td>101 = 1.6-2.5 FLA</td>
<td>105 = 1.6-2.5 FLA</td>
</tr>
<tr>
<td>201 = 2.5-4.0 FLA</td>
<td>205 = 2.5-4.0 FLA</td>
</tr>
<tr>
<td>301 = 4.0-6.3 FLA</td>
<td>305 = 4.0-6.3 FLA</td>
</tr>
<tr>
<td>401 = 6.0-10.0 FLA</td>
<td>405 = 6.0-10.0 FLA</td>
</tr>
<tr>
<td>511 = 9.0-14.0 FLA</td>
<td>515 = 9.0-14.0 FLA</td>
</tr>
<tr>
<td>611 = 13.0-18.0 FLA</td>
<td>615 = 13.0-18.0 FLA</td>
</tr>
<tr>
<td>621 = 17.0-23.0 FLA</td>
<td>625 = 17.0-23.0 FLA</td>
</tr>
<tr>
<td>701 = 20.0-25.0 FLA</td>
<td>705 = 20.0-25.0 FLA</td>
</tr>
</tbody>
</table>

**FLOAT SWITCH APPLICATION**

- H or L = pump down or pump up (select 17 option)
- E = EZconnex® float switch system (select 34 or 35 option)
- X = no floats

**OPTIONS Listed below**

- ENCLOSURE UPSIZE - If you selected one or more of the ★ options, add a one-time $53.00 list enclosure upsise

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>List Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>Red beacon only / no audio</td>
<td>$21.00</td>
</tr>
<tr>
<td>1C</td>
<td>Horn only / no visual</td>
<td>$21.00</td>
</tr>
<tr>
<td>3A</td>
<td>Alarm flasher (factory programmed)</td>
<td>$35.00</td>
</tr>
<tr>
<td>3B</td>
<td>Manual alarm reset (factory programmed)</td>
<td>$35.00</td>
</tr>
<tr>
<td>★4A</td>
<td>Redundant off (select option 4D if floats included)</td>
<td>$42.00</td>
</tr>
<tr>
<td>4B</td>
<td>Redundant off indicator &amp; alarm (must select 4A also)</td>
<td>$64.00</td>
</tr>
<tr>
<td>4D</td>
<td>Redundant off float (must select 4A option) (select 17 option)</td>
<td>$27.00</td>
</tr>
<tr>
<td>★5A</td>
<td>Thermal cutout/heat sensor auto reset (for pumps w/thermal switch leads)</td>
<td>$84.00</td>
</tr>
<tr>
<td>5E</td>
<td>Seal failure circuit &amp; red indicator</td>
<td>$180.00</td>
</tr>
<tr>
<td>6A</td>
<td>Auxiliary alarm contact, Form C</td>
<td>$0.00</td>
</tr>
<tr>
<td>8A</td>
<td>Elapsed time meter</td>
<td>$117.00</td>
</tr>
<tr>
<td>★8C</td>
<td>Event (cycle) counter</td>
<td>$95.00</td>
</tr>
<tr>
<td>★10A</td>
<td>Clear inner swing-out door w/dead</td>
<td>$201.00</td>
</tr>
<tr>
<td></td>
<td>(front lights and switches mounted on inner door)</td>
<td></td>
</tr>
<tr>
<td>*10A</td>
<td>Clear inner swing-out door w/dead</td>
<td>$201.00</td>
</tr>
<tr>
<td></td>
<td>(front lights and switches mounted on inner door)</td>
<td></td>
</tr>
</tbody>
</table>

- Panels ordered with this option cannot be returned.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>List Price</th>
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</thead>
<tbody>
<tr>
<td>10E</td>
<td>Lockable latch</td>
<td>$42.00</td>
</tr>
<tr>
<td>10G</td>
<td>Lightning arrester</td>
<td>$212.00</td>
</tr>
<tr>
<td>10K</td>
<td>Anti-condensation heater</td>
<td>$133.00</td>
</tr>
<tr>
<td>11C</td>
<td>NEMA 1 alarm panel</td>
<td>$85.00</td>
</tr>
<tr>
<td>11D</td>
<td>NEMA 4X alarm panel</td>
<td>$315.00</td>
</tr>
<tr>
<td>★14B</td>
<td>Main disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF-position, door interlock in the ON-position)</td>
<td></td>
</tr>
<tr>
<td>★0-10 FLA (total of both pumps)</td>
<td>$302.00</td>
<td></td>
</tr>
<tr>
<td>★10-20 FLA (total of both pumps)</td>
<td>$345.00</td>
<td></td>
</tr>
<tr>
<td>★20-50 FLA (total of both pumps)</td>
<td>$721.00</td>
<td></td>
</tr>
</tbody>
</table>

- Mechanically-activated
- Mercury-activated
- EZconnex® mechanically-activated, narrow angle float switches with quick release connections.

**TOTAL LIST PRICE**

- Total Options
- Enclosure Upsize
- Total List Price

**OPTIONS**

- 34G  EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp, sealing plug $343.00
- 35H  EZconnex® 4-Port, 50', w/20' floats (3) /pipe clamp, sealing plug $362.00
- 35J  EZconnex® 4-Port, 10', w/20' floats (4) /pipe clamp $379.00
- 35K  EZconnex® 4-Port, 15', w/20' floats (4) /pipe clamp $388.00
- 36J  EZconnex® 4-Port, 20', w/20' floats (4) /pipe clamp $405.00
- 37J  EZconnex® 4-Port, 25', w/20' floats (4) /pipe clamp $424.00
- 38J  EZconnex® 4-Port, 30', w/20' floats (4) /pipe clamp $440.00
- 39J  EZconnex® 4-Port, 40', w/20' floats (4) /pipe clamp $458.00
- 35D  EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp $343.00
- 35E  EZconnex® 4-Port, 50', w/10' floats (4) /pipe clamp $362.00
- 35F  EZconnex® 4-Port, 10', w/20' floats (4) /pipe clamp $379.00
- 35G  EZconnex® 4-Port, 15', w/20' floats (4) /pipe clamp $388.00
- 35H  EZconnex® 4-Port, 20', w/20' floats (4) /pipe clamp $405.00
- 35I  EZconnex® 4-Port, 25', w/20' floats (4) /pipe clamp $424.00
- 35J  EZconnex® 4-Port, 30', w/20' floats (4) /pipe clamp $440.00
- 35K  EZconnex® 4-Port, 40', w/20' floats (4) /pipe clamp $458.00
- 36J  EZconnex® 4-Port, 20', w/20' floats (4) /pipe clamp $467.00
- 36K  EZconnex® 4-Port, 30', w/20' floats (4) /pipe clamp $485.00
- 37J  EZconnex® 4-Port, 25', w/20' floats (4) /pipe clamp $504.00
- 38J  EZconnex® 4-Port, 30', w/20' floats (4) /pipe clamp $523.00
- 39J  EZconnex® 4-Port, 40', w/20' floats (4) /pipe clamp $541.00
- 35D  EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp $343.00
- 35E  EZconnex® 4-Port, 50', w/10' floats (4) /pipe clamp $362.00
- 35F  EZconnex® 4-Port, 10', w/20' floats (4) /pipe clamp $379.00
- 35G  EZconnex® 4-Port, 15', w/20' floats (4) /pipe clamp $388.00
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- 38J  EZconnex® 4-Port, 30', w/20' floats (4) /pipe clamp $523.00
- 39J  EZconnex® 4-Port, 40', w/20' floats (4) /pipe clamp $541.00

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