The Model 312 control panel provides industrial and commercial customers with a reliable means of controlling one 208/240/480V three phase pump in water and sewage installations. Two control switches activate an IEC motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system. Common applications include pump chambers, irrigation systems, and lift stations. This panel is available with optional EZconnex® float connection system.

**COMPONENTS**

1. NEMA 4X (ultraviolet stabilized thermoplastic enclosure measures 12 x 10 x 6 inches (30.48 x 24.4 x 15.24), padlockable with integral mounting flanges, drip shield, (2) heavy duty cover latches, and stainless steel ¼ turn set screw; for outdoor or indoor use). Note: added options may change enclosure size and enclosure features.
2. IEC motor contactor controls pump by switching electrical lines
3. Multi-tap transformer (208/240/480VAC primary) provides 120V control/alarm voltage or 600VAC primary transformer
4. Motor protective switch provides adjustable overload, branch circuit protection and pump disconnect
5. HOA switch for manual pump control (mounted on circuit board)
6. Green Pump Run indicator light (mounted on circuit board)
7. Alarm fuse (mounted on circuit board)
8. Control fuse (mounted on circuit board)
9. Alarm and control power indicators (mounted on circuit board)
10. Float switch terminal block (mounted on circuit board)
11. Input power terminal block
12. Ground lugs
13. Red LED beacon provides 360° visual check of alarm condition
14. Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating)
15. 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
16. Horn silence relay (mounted on circuit board).

**Note:** Options may increase enclosure size and/or change enclosure features/component layout.

**Note:** Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.
### Control Panel
- **Model 312**: Three Phase Simplex (includes Option 10E as standard) - $1,617.00

#### Alarm Package
- **Options or No Alarm Package**: - $36.00
- **Alarm Package**: (includes test/normal/silence switch, fuse, red light, & horn) - Base

#### Enclosure Rating
- **W**: Weatherproof, NEMA 4X (engineered thermoplastic) - Base

#### Pump Full Load Amps
- **208/240/480V**
  - 1.0 - 1.6 FLA
  - 1.6 - 2.5 FLA
  - 2.5 - 4.0 FLA
  - 4.0 - 6.3 FLA
  - 6.0 - 10.0 FLA
  - 9.0 - 14.0 FLA
  - 13.0 - 18.0 FLA
  - 17.0 - 23.0 FLA
  - 20.0 - 25.0 FLA

#### Float Switch Application
- **H**: Floats - Pump Down (select Option 17 below) - Base
- **L**: Floats - Pump Up (select Option 17 below) - Base
- **E**: EZconnex® Float Switch System (select Option 33 or 34 below) with Alarm Package - $84.00
  - without Alarm Package - $56.00
- **X**: No Floats with Alarm Package - $84.00
  - without Alarm Package - $56.00

#### Options and Description
- **1A**: Red Beacon Only / No Audio (must select Option 1E if floats included) - $17.00
- **1C**: Horn Only / No Visual (must select Option 1E if floats included) - $17.00
- **1E**: Alarm Float - $28.00
- **3A**: Alarm Flasher - $49.00
- **3B**: Manual Alarm Reset - $98.00
- **4A**: Redundant Off (must also select Option 4D if floats are required) - $60.00
- **4B**: Red Redundant Off Indicator & Alarm (must also select Option 4A) - $56.00
- **4D**: Redundant Off Float (must also select Option 4A and Option 17) - $28.00
- **5A**: Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads) - $43.00
- **5E**: Seal Failure Circuit & Red Indicator (2 wire) - $175.00
- **6A**: Auxiliary Alarm Contact, Form C - $17.00
- **8A**: Elapsed Time Meter - $82.00
- **8C**: Event (Cycle) Counter - $71.00
- **10A**: Clear Inner Swing-Out Door with Dead Front (lights and switches mounted on inner door) - $185.00

#### Option 10E
- **Lockable Latch**: NEMA 4X (included as standard) - $0.00

### Additional Notes
- **EZconnex®** mechanically-activated, narrow angle float switches with quick release connections

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**Pricing Worksheet**

<table>
<thead>
<tr>
<th>Options</th>
<th>Description</th>
<th>List Price</th>
<th>Options</th>
<th>Description</th>
<th>List Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>Red Beacon Only / No Audio</td>
<td>$17.00</td>
<td>16A</td>
<td>10' Cord in Lieu of 20' Cord (per float)</td>
<td>- $3.00</td>
</tr>
<tr>
<td>1C</td>
<td>Horn Only / No Visual</td>
<td>$17.00</td>
<td>16B</td>
<td>15' Cord in Lieu of 20' Cord (per float)</td>
<td>- $2.00</td>
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<tr>
<td>1E</td>
<td>Alarm Float</td>
<td>$28.00</td>
<td>16C</td>
<td>30' Cord in Lieu of 20' Cord (per float)</td>
<td>$5.00</td>
</tr>
<tr>
<td>3A</td>
<td>Alarm Flasher</td>
<td>$49.00</td>
<td>16D</td>
<td>40' Cord in Lieu of 20' Cord (per float)</td>
<td>$15.00</td>
</tr>
<tr>
<td>3B</td>
<td>Manual Alarm Reset</td>
<td>$98.00</td>
<td>17A</td>
<td>SJE SignalMaster® / Pipe Clamp (per float) - Mechanical</td>
<td>- $3.00</td>
</tr>
<tr>
<td>4A</td>
<td>Redundant Off (must also select Option 4D if floats are required)</td>
<td>$60.00</td>
<td>17B</td>
<td>SJE SignalMaster®/Externally Weighted (per Float) - Mechanical</td>
<td>$5.00</td>
</tr>
<tr>
<td>4B</td>
<td>Red Redundant Off Indicator &amp; Alarm (must also select Option 4A)</td>
<td>$60.00</td>
<td>17C</td>
<td>Sensor Float® / Internally Weighted (per Float) - Mercury</td>
<td>$9.00</td>
</tr>
<tr>
<td>4D</td>
<td>Redundant Off Float (must also select Option 4A and Option 17)</td>
<td>$28.00</td>
<td>17D</td>
<td>Sensor Float® / Externally Weighted (per Float) - Mercury</td>
<td>$11.00</td>
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<tr>
<td>5A</td>
<td>Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads)</td>
<td>$43.00</td>
<td>17E</td>
<td>Sensor Float® Mini / Pipe Clamp (per Float) - Mercury</td>
<td>$2.00</td>
</tr>
<tr>
<td>5E</td>
<td>Seal Failure Circuit &amp; Red Indicator (2 wire)</td>
<td>$175.00</td>
<td>17F</td>
<td>Sensor Float® Mini / Externally Weighted (per Float) - Mercury</td>
<td>$9.00</td>
</tr>
<tr>
<td>6A</td>
<td>Auxiliary Alarm Contact, Form C</td>
<td>$17.00</td>
<td>17J</td>
<td>Sensor Float® / Pipe Clamp (per Float) - Mercury</td>
<td>$4.00</td>
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<tr>
<td>8A</td>
<td>Elapsed Time Meter</td>
<td>$82.00</td>
<td>19T</td>
<td>TOA (Test/Off/Automatic) Switches and Pump Run Lights Through Door Mounted</td>
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<tr>
<td>8C</td>
<td>Event (Cycle) Counter</td>
<td>$71.00</td>
<td>19U</td>
<td>HOA (Hand/Off/Automatic) Switches and Pump Run Lights Through Door Mounted</td>
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<tr>
<td>10A</td>
<td>Clear Inner Swing-Out Door with Dead Front (lights and switches mounted on inner door)</td>
<td>$185.00</td>
<td>19X</td>
<td>Door Mounted Pump Run Indicator</td>
<td>$33.00</td>
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<tr>
<td>10E</td>
<td>Lockable Latch - NEMA 4X (included as standard)</td>
<td>$0.00</td>
<td>21A</td>
<td>SJE PumpMaster® in Lieu of ON/OFF Switches - Mechanical</td>
<td>- $12.00</td>
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<tr>
<td>10G</td>
<td>Lightning Arrestor</td>
<td>$218.00</td>
<td>21B</td>
<td>SJE PumpMaster® Plus in Lieu of ON/OFF Switches - Mechanical</td>
<td>$16.00</td>
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<td>10K</td>
<td>Anti-condensation Heater</td>
<td>$137.00</td>
<td>21C</td>
<td>Super Single® in Lieu of ON/OFF Switches - Mercury</td>
<td>$20.00</td>
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<tr>
<td>11C</td>
<td>Additional NEMA 1 Remote Alarm Panel (must also select Option 6A)</td>
<td>$101.00</td>
<td>21D</td>
<td>Double Float® in Lieu of ON/OFF Switches - Mechanical</td>
<td>$40.00</td>
</tr>
<tr>
<td>11D</td>
<td>Additional NEMA 4X Remote Alarm Panel (must also select Option 6A)</td>
<td>$324.00</td>
<td>33B</td>
<td>EZconnex® 3-Port, 25', with 10’ Floats (3) / Pipe Clamp</td>
<td>$276.00</td>
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<tr>
<td>14B</td>
<td>Main Disconnect - 14x12 Enclosure Upgrade (rotary style, mounted through door, non-fused, padlockable in the OFF position, door interlock in the ON position)</td>
<td>$316.00</td>
<td>33C</td>
<td>EZconnex® 3-Port, 25', with 20’ Floats (3) / Pipe Clamp</td>
<td>$297.00</td>
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<tr>
<td>33H</td>
<td>EZconnex® 3-Port, 50', with 20’ Floats (3) / Pipe Clamp</td>
<td>$334.00</td>
<td>34G</td>
<td>EZconnex® 4-Port, 25', with 20’ Floats (3) / Pipe Clamp, Sealing Plug</td>
<td>$373.00</td>
</tr>
<tr>
<td>34H</td>
<td>EZconnex® 4-Port, 50', with 20’ Floats (3) / Pipe Clamp, Sealing Plug</td>
<td>$419.00</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>