MODEL 312 Control Panel

Three phase, simplex motor contactor control.

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.

PANEL COMPONENTS

1. Enclosure measures 12x10x6 inches (30.48x24.4x15.24) NEMA 4X (ultraviolet stabilized thermoplastic, 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 (208/240/480 VAC 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).


7. Alarm Fuse (mounted on circuit board).

8. Control Fuse (mounted on circuit board).


10. Float Switch Terminal Block (mounted on circuit board).

11. Input Power Terminal Block

12. Ground Lugs

   NOTE: Schematic/Wiring Diagram is located inside the panel on enclosure cover.

STANDARD ALARM PACKAGE

13. Red Alarm 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.


   NOTE: other options available.

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20’ control switches or EZconnex® float system
- Complete with step-by-step installation instructions
- Five-year limited warranty
### Alarm Package
- **0**: Select options or no alarm package - $35.00
- **1**: Alarm package (includes test/normal/silence switch, fuse, red light, horn, & float) - Base

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

### PUMP FULL LOAD AMPS

#### 600V
- **001**: 1.0-1.6 FLA - Base
- **101**: 1.6-2.5 FLA - Base
- **201**: 2.5-4.0 FLA - Base
- **301**: 4.0-6.3 FLA - Base
- **401**: 6.0-10.0 FLA - Base
- **511**: 9.0-14.0 FLA - Base
- **611**: 13.0-18.0 FLA - Base
- **621**: 17.0-23.0 FLA - Base
- **701**: 20.0-25.0 FLA - Base

### Float Switch Application
- **H** or **L**: Pump down or pump up (select 17 option) - Base
- **E**: EZconnex® float switch system (select 33 or 34 option)
  - WITH alarm package - $81.00
  - WITHOUT alarm package - $54.00
- **X**: No floats
  - WITH alarm package - $81.00
  - WITHOUT alarm package - $54.00

### Options

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>LIST PRICE</th>
</tr>
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<tbody>
<tr>
<td>1A</td>
<td>Red beacon only / no audio (must select 1E if floats included)</td>
<td>$16.00</td>
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<tr>
<td>1C</td>
<td>Horn only / no visual (must select 1E if floats included)</td>
<td>$16.00</td>
</tr>
<tr>
<td>1E</td>
<td>Alarm float (select option 1D if floats included)</td>
<td>$27.00</td>
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<tr>
<td>3A</td>
<td>Alarm flasher</td>
<td>$48.00</td>
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<tr>
<td>3B</td>
<td>Manual alarm reset</td>
<td>$95.00</td>
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<tr>
<td>4A</td>
<td>Redundant off</td>
<td>$58.00</td>
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<tr>
<td>4B</td>
<td>Red redundant off indicator &amp; alarm activation (must select 4A also)</td>
<td>$64.00</td>
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<tr>
<td>4D</td>
<td>Redundant off float (must select 4A option) (select 17 option)</td>
<td>$27.00</td>
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<tr>
<td>5A</td>
<td>Thermal cutout/heat sensor auto reset (for pumps w/thermal switch leads)</td>
<td>$42.00</td>
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<tr>
<td>5E</td>
<td>Seal failure circuit &amp; red indicator (2 wire)</td>
<td>$170.00</td>
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<tr>
<td>6A</td>
<td>Auxiliary alarm contact, Form C</td>
<td>$16.00</td>
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<tr>
<td>8A</td>
<td>Elapsed time meter</td>
<td>$80.00</td>
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<tr>
<td>8C</td>
<td>Event (cycle) counter</td>
<td>$69.00</td>
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<tr>
<td>10A</td>
<td>Clear inner swing-out door w/dead front</td>
<td>$180.00</td>
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<tr>
<td>10E</td>
<td>Lockable latch - NEMA 4X (included as standard)</td>
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<tr>
<td>10G</td>
<td>Lightning arrester</td>
<td>$212.00</td>
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<tr>
<td>10K</td>
<td>Anti-condensation heater</td>
<td>$153.00</td>
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<tr>
<td>11C</td>
<td>NEMA 1 alarm panel (must select option 6A)</td>
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<tr>
<td>11D</td>
<td>NEMA 4X alarm panel (must select option 6A)</td>
<td>$315.00</td>
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<tr>
<td>14B</td>
<td>Main Disconnect (4x12 enclosure upgrade) (rotary style, mounted through door, non-fused, padlockable in the OFF-position, door interlock in the ON-position)</td>
<td>$307.00</td>
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</tbody>
</table>

### Code 10E Details

- **W**: Weatherproof, NEMA 4X (engineered thermoplastic) - $1,570.00

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Mechanically-activated ▲ Mercury-activated

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

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