

MODEL 312 Control Panel

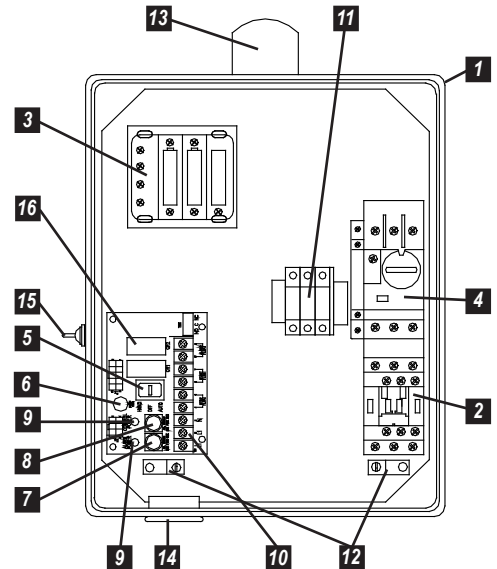
Three phase, simplex motor contactor control.

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 12 x 10 x 6 inches (30.48 x 25.40 x 15.24 cm). NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
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).
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**

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



Model Shown 3121W511X

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.
16. **Horn Silence Relay** (mounted on circuit board).

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



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**SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.
SEE PRICE BOOK FOR LIST PRICE.**

312**W****MODEL 312****ALARM PACKAGE**

- 0 = select options or no alarm package
 1 = alarm package (includes test/normal/silence switch, fuse, red light, horn, & float)

ENCLOSURE RATING

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

PUMP FULL LOAD AMPS**208/240/480V**

- 001 = 1.0-1.6 FLA
 101 = 1.6-2.5 FLA
 201 = 2.5-4.0 FLA
 301 = 4.0-6.3 FLA
 401 = 6.0-10.0 FLA
 511 = 9.0-14.0 FLA
 611 = 13.0-18.0 FLA
 621 = 17.0-23.0 FLA
 701 = 20.0-25.0 FLA

600V

- 005 = 1.0-1.6 FLA
 105 = 1.6-2.5 FLA
 205 = 2.5-4.0 FLA
 305 = 4.0-6.3 FLA
 405 = 6.0-10.0 FLA
 515 = 9.0-14.0 FLA
 615 = 13.0-18.0 FLA
 625 = 17.0-23.0 FLA
 705 = 20.0-25.0 FLA

FLOAT SWITCH APPLICATION

- H or L = pump down or pump up (select 17 option)
 E = EZconnex® float switch system (select 33 or 34 option)
 WITH alarm package
 WITHOUT alarm package
 X = no floats
 WITH alarm package
 WITHOUT alarm package

OPTIONS *Listed below*

- | CODE | DESCRIPTION |
|-------------------------------|---|
| <input type="checkbox"/> 1A | Red beacon only / no audio
(<i>must select 1E if floats included</i>) |
| <input type="checkbox"/> 1C | Horn only / no visual
(<i>must select 1E if floats included</i>) |
| <input type="checkbox"/> 1E | Alarm float |
| <input type="checkbox"/> 3A | Alarm flasher |
| <input type="checkbox"/> 3B | Manual alarm reset |
| <input type="checkbox"/> 4A | Redundant off
(<i>select option 4D if floats included</i>) |
| <input type="checkbox"/> 4B | Red redundant off indicator & alarm activation
(<i>must select 4A also</i>) |
| <input type="checkbox"/> 4D | Redundant off float
(<i>must select 4A option</i>) (<i>select 17 option</i>) |
| <input type="checkbox"/> 5A | Thermal cutout/heat sensor auto reset (for pumps w/thermal switch leads) |
| <input type="checkbox"/> 5E | Seal failure circuit & red indicator (2 wire) |
| <input type="checkbox"/> 6A | Auxiliary alarm contact, form C |
| <input type="checkbox"/> 8A | Elapsed time meter |
| <input type="checkbox"/> 8C | Event (cycle) counter |
| <input type="checkbox"/> *10A | Clear inner swing-out door w/dead front (lights and switches mounted on inner door)
*Panels ordered with this option cannot be returned. |
| <input type="checkbox"/> 10E | Lockable latch - NEMA 4X |
| <input type="checkbox"/> 10G | Lightning arrester |
| <input type="checkbox"/> 10K | Anti-condensation heater |
| <input type="checkbox"/> 11C | NEMA 1 alarm panel (<i>must select option 6A</i>) |
| <input type="checkbox"/> 11D | NEMA 4X alarm panel (<i>must select option 6A</i>) |
| <input type="checkbox"/> 14B | Main Disconnect (<i>14X12 enclosure upgrade</i>)
(rotary style, mounted through door, non-fused, padlockable in the OFF-position, door interlock in the ON-position) |

- | CODE | DESCRIPTION |
|------------------------------|---|
| <input type="checkbox"/> 16A | 10' cord in lieu of 20' (<i>per float</i>) |
| <input type="checkbox"/> 16B | 15' cord in lieu of 20' (<i>per float</i>) |
| <input type="checkbox"/> 16C | 30' cord in lieu of 20' (<i>per float</i>) |
| <input type="checkbox"/> 16D | 40' cord in lieu of 20' (<i>per float</i>) |
| <input type="checkbox"/> 17A | SJE SignalMaster® / mounting strap ● (<i>per float</i>) |
| <input type="checkbox"/> 17B | SJE SignalMaster® / externally weighted ● (<i>per float</i>) |
| <input type="checkbox"/> 17C | Sensor Float® / internally weighted ▲ (<i>per float</i>) |
| <input type="checkbox"/> 17D | Sensor Float® / externally weighted ▲ (<i>per float</i>) |
| <input type="checkbox"/> 17E | Sensor Float® Mini / pipe clamp ▲ (<i>per float</i>) |
| <input type="checkbox"/> 17F | Sensor Float® Mini / externally weighted ▲ (<i>per float</i>) |
| <input type="checkbox"/> 17J | Sensor Float® / pipe clamp ▲ (<i>per float</i>) |
| <input type="checkbox"/> 19T | TOA (Test/Off/Automatic) switch and pump run light through door mounted |
| <input type="checkbox"/> 19U | HOA (Hand/Off/Automatic) switch and pump run light through door mounted |
| <input type="checkbox"/> 19X | Door mounted pump run indicator |
| <input type="checkbox"/> 21A | SJE PumpMaster® in lieu of on/off switches ● |
| <input type="checkbox"/> 21B | SJE PumpMaster® Plus in lieu of on/off switches ● |
| <input type="checkbox"/> 21C | Super Single® in lieu of on/off switches ▲ |
| <input type="checkbox"/> 21D | Double Float® in lieu of on/off switches ▲ |
| <input type="checkbox"/> 33D | EZconnex® 3-Port, 25', w/10' floats (3) /pipe clamp * |
| <input type="checkbox"/> 33E | EZconnex® 3-Port, 50', w/10' floats (3) /pipe clamp * |
| <input type="checkbox"/> 33G | EZconnex® 3-Port, 25', w/20' floats (3) /pipe clamp * |
| <input type="checkbox"/> 33H | EZconnex® 3-Port, 50', w/20' floats (3) /pipe clamp * |
| <input type="checkbox"/> 34D | EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp, sealing plug * |
| <input type="checkbox"/> 34E | EZconnex® 4-Port, 50', w/10' floats (3) /pipe clamp, sealing plug * |
| <input type="checkbox"/> 34G | EZconnex® 4-Port, 25', w/20' floats (3) /pipe clamp, sealing plug * |
| <input type="checkbox"/> 34H | EZconnex® 4-Port, 50', w/20' floats (3) /pipe clamp, sealing plug * |

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