

# MODEL 312 Control Panel

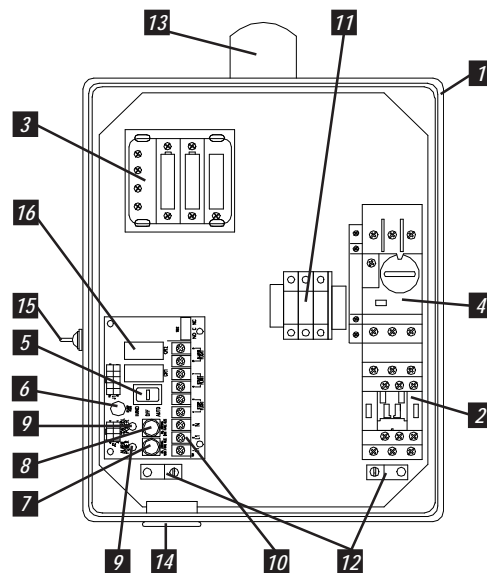
## Three phase, simplex motor contactor control.

The Model 312 control panel provides industrial and commercial customers with a reliable means of controlling one three phase pump in water and sewage installations. Two control switches activate a 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.
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' SignalMaster® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty

**SJE**  
**Rhombus**

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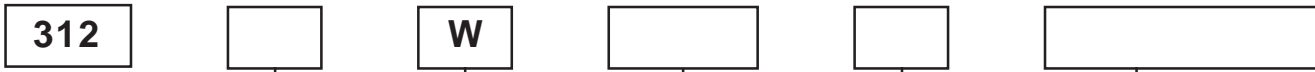
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SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.  
SEE PRICE BOOK FOR LIST PRICE.



**MODEL 312**

**ALARMPACKAGE**

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

**ENCLOSURERATING**

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

**PUMP FULL LOAD AMPS**

- 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

**FLOAT SWITCH APPLICATION**

- H or L = pump down or pump up (select 17 option)
- X = no floats
  - WITH alarm package
  - WITHOUT alarm package

**OPTIONS** *Listed below*

**CODE DESCRIPTION**

- 1A Red beacon only / no audio  
*(must select 1E if floats included)*
- 1C Horn only / no visual  
*(must select 1E if floats included)*
- 1E Alarm float
- 3A Alarm flasher
- 3B Manual alarm reset
- 4A Redundant off  
*(select option 4D if floats included)*
- 4B Red redundant off indicator & alarm activation  
*(must select 4A also)*
- 4D Redundant off float  
*(must select 4A option) (select 17 option)*
- 5A Thermal cutout/heat sensor auto reset (for pumps w/thermal switch leads)
- 5E Seal failure circuit & red indicator (2 wire)
- 6A Auxiliary alarm contact, form C
- 8A Elapsed time meter
- 8C Event (cycle) counter
- \*10A Clear inner swing-out door w/dead front (lights and switches mounted on inner door)  
*\*Panels ordered with this option cannot be returned.*
- 10E Lockable latch - NEMA 4X
- 10G Lightning arrestor
- 10K Anti-condensation heater

**CODE DESCRIPTION**

- 11C NEMA 1 alarm panel *(must select option 6A)*
  - 11D NEMA 4X alarm panel *(must select option 6A)*
  - 14B Main Disconnect (14X12 enclosure upgrade)  
*(rotary style, mounted through door, non-fused)*
  - 16A 10' cord in lieu of 20' *(per float)*
  - 16B 15' cord in lieu of 20' *(per float)*
  - 16C 30' cord in lieu of 20' *(per float)*
  - 16D 40' cord in lieu of 20' *(per float)*
  - 17A SJE SignalMaster® / mounting strap ● *(per float)*
  - 17B SJE SignalMaster® / externally weighted ● *(per float)*
  - 17C Sensor Float® / internally weighted ▲ *(per float)*
  - 17D Sensor Float® / externally weighted ▲ *(per float)*
  - 17E Sensor Float® Mini / pipe clamp ▲ *(per float)*
  - 17F Sensor Float® Mini / externally weighted ▲ *(per float)*
  - 17J Sensor Float® / pipe clamp ▲ *(per float)*
  - 19T TOA (Test/Off/Automatic) switch and pump run light through door mounted
  - 19U HOA (Hand/Off/Automatic) switch and pump run light through door mounted
  - 19X Door mounted pump run indicator
  - 21A SJE PumpMaster® in lieu of on/off switches ●
  - 21B SJE PumpMaster® Plus in lieu of on/off switches ●
  - 21C Super Single® in lieu of on/off switches ▲
  - 21D Double Float® in lieu of on/off switches ▲
- Mechanically-activated ▲ Mercury-activated

**If additional features are required, call the factory for a quote on an Engineered Custom control panel.**

**SAMPLE**

