

MODEL 312 Control Panel

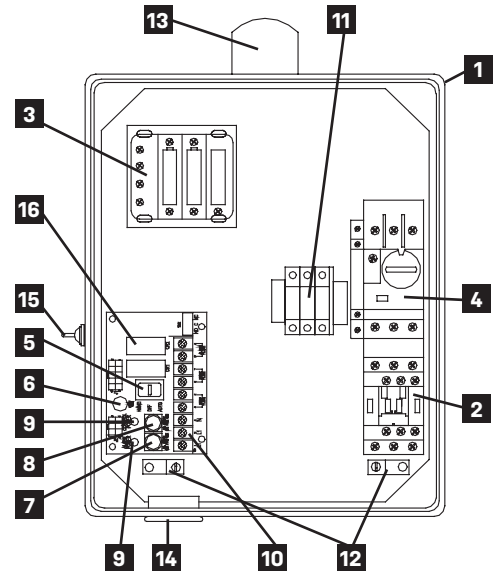
Three phase, simplex motor contactor control.

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

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



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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**

- 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
- 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, padlockable in the OFF-position, door interlock in the ON-position)

CODE DESCRIPTION

- 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 ▲
- 33D EZconnex® 3-Port, 25', w/10' floats (3) /pipe clamp *
- 33E EZconnex® 3-Port, 50', w/10' floats (3) /pipe clamp *
- 33G EZconnex® 3-Port, 25', w/20' floats (3) /pipe clamp *
- 33H EZconnex® 3-Port, 50', w/20' floats (3) /pipe clamp *
- 34D EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp, sealing plug *
- 34E EZconnex® 4-Port, 50', w/10' floats (3) /pipe clamp, sealing plug *
- 34G EZconnex® 4-Port, 25', w/20' floats (3) /pipe clamp, sealing plug *
- 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.