

# MODEL 312 Control Panel

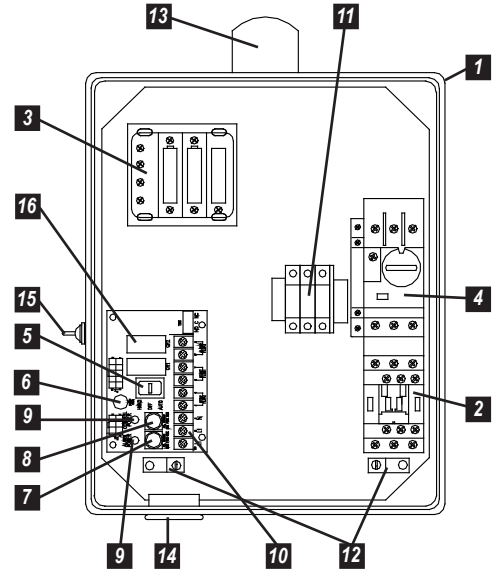
## Three phase, simplex motor contactor control.

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.**

<b>312</b>		<b>W</b>				
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**MODEL 312** ..... \$1,438.00

**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**

**208/240/480V**

**600V**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li><input type="checkbox"/> 001 = 1.0-1.6 FLA</li> <li><input type="checkbox"/> 101 = 1.6-2.5 FLA</li> <li><input type="checkbox"/> 201 = 2.5-4.0 FLA</li> <li><input type="checkbox"/> 301 = 4.0-6.3 FLA</li> <li><input type="checkbox"/> 401 = 6.0-10.0 FLA</li> <li><input type="checkbox"/> 511 = 9.0-14.0 FLA</li> <li><input type="checkbox"/> 611 = 13.0-18.0 FLA</li> <li><input type="checkbox"/> 621 = 17.0-23.0 FLA</li> <li><input type="checkbox"/> 701 = 20.0-25.0 FLA</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> 005 = 1.0-1.6 FLA ..... Base</li> <li><input type="checkbox"/> 105 = 1.6-2.5 FLA ..... Base</li> <li><input type="checkbox"/> 205 = 2.5-4.0 FLA ..... Base</li> <li><input type="checkbox"/> 305 = 4.0-6.3 FLA ..... Base</li> <li><input type="checkbox"/> 405 = 6.0-10.0 FLA ..... Base</li> <li><input type="checkbox"/> 515 = 9.0-14.0 FLA ..... \$45.00</li> <li><input type="checkbox"/> 615 = 13.0-18.0 FLA ..... \$45.00</li> <li><input type="checkbox"/> 625 = 17.0-23.0 FLA ..... \$55.00</li> <li><input type="checkbox"/> 705 = 20.0-25.0 FLA ..... \$55.00</li> </ul> |
|--|---|

**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 ..... - \$75.00
  - WITHOUT alarm package ..... - \$50.00
- X = no floats
  - WITH alarm package ..... - \$75.00
  - WITHOUT alarm package ..... - \$50.00

**OPTIONS** *Listed below*

Total Options \_\_\_\_\_  
**TOTAL LIST PRICE** \_\_\_\_\_

CODE	DESCRIPTION	LIST PRICE	CODE	DESCRIPTION	LIST PRICE
<input type="checkbox"/>	1A Red beacon only / no audio ..... <i>(must select 1E if floats included)</i>	\$15.00	<input type="checkbox"/>	16A 10' cord in lieu of 20' <i>(per float)</i> .....	\$2.00
<input type="checkbox"/>	1C Horn only / no visual ..... <i>(must select 1E if floats included)</i>	\$15.00	<input type="checkbox"/>	16B 15' cord in lieu of 20' <i>(per float)</i> .....	\$1.00
<input type="checkbox"/>	1E Alarm float.....	\$25.00	<input type="checkbox"/>	16C 30' cord in lieu of 20' <i>(per float)</i> .....	\$5.00
<input type="checkbox"/>	3A Alarm flasher.....	\$45.00	<input type="checkbox"/>	16D 40' cord in lieu of 20' <i>(per float)</i> .....	\$15.00
<input type="checkbox"/>	3B Manual alarm reset.....	\$90.00	<input type="checkbox"/>	17A SJE SignalMaster® / mounting strap ● <i>(per float)</i> .....	\$2.00
<input type="checkbox"/>	4A Redundant off ..... <i>(select option 4D if floats included)</i>	\$55.00	<input type="checkbox"/>	17B SJE SignalMaster® / externally weighted ● <i>(per float)</i> .....	\$5.00
<input type="checkbox"/>	4B Red redundant off indicator & alarm ..... activation <i>(must select 4A also)</i>	\$60.00	<input type="checkbox"/>	17C Sensor Float® / internally weighted ▲ <i>(per float)</i> .....	\$5.00
<input type="checkbox"/>	4D Redundant off float <i>(must select 4A option) (select 17 option)</i> .....	\$25.00	<input type="checkbox"/>	17D Sensor Float® / externally weighted ▲ <i>(per float)</i> .....	\$7.00
<input type="checkbox"/>	5A Thermal cutout/heat sensor auto ..... reset (for pumps w/thermal switch leads)	\$40.00	<input type="checkbox"/>	17E Sensor Float® Mini / pipe clamp ▲ <i>(per float)</i> .....	\$2.00
<input type="checkbox"/>	5E Seal failure circuit & red indicator ..... (2 wire)	\$160.00	<input type="checkbox"/>	17F Sensor Float® Mini / externally weighted ▲ <i>(per float)</i> .....	\$5.00
<input type="checkbox"/>	6A Auxiliary alarm contact, form C.....	\$15.00	<input type="checkbox"/>	17J Sensor Float® / pipe clamp ▲ <i>(per float)</i> .....	\$0.00
<input type="checkbox"/>	8A Elapsed time meter.....	\$75.00	<input type="checkbox"/>	19T TOA (Test/Off/Automatic) switch and pump run light through door mounted .....	\$75.00
<input type="checkbox"/>	8C Event (cycle) counter.....	\$65.00	<input type="checkbox"/>	19U HOA (Hand/Off/Automatic) switch and pump run light through door mounted .....	\$60.00
<input type="checkbox"/>	*10A Clear inner swing-out door w/dead front..... (lights and switches mounted on inner door) <i>*Panels ordered with this option cannot be returned.</i>	\$170.00	<input type="checkbox"/>	19X Door mounted pump run indicator .....	\$30.00
<input type="checkbox"/>	10E Lockable latch - NEMA 4X.....	\$40.00	<input type="checkbox"/>	21A SJE PumpMaster® in lieu of on/off switches ● .....	\$10.00
<input type="checkbox"/>	10G Lightning arrestor.....	\$200.00	<input type="checkbox"/>	21B SJE PumpMaster® Plus in lieu of on/off switches ● .....	\$16.00
<input type="checkbox"/>	10K Anti-condensation heater.....	\$125.00	<input type="checkbox"/>	21C Super Single® in lieu of on/off switches ▲ .....	\$16.00
<input type="checkbox"/>	11C NEMA 1 alarm panel <i>(must select option 6A)</i> .....	\$80.00	<input type="checkbox"/>	21D Double Float® in lieu of on/off switches ▲ .....	\$30.00
<input type="checkbox"/>	11D NEMA 4X alarm panel <i>(must select option 6A)</i> .....	\$250.00	<input type="checkbox"/>	33D EZconnex® 3-Port, 25', w/10' floats (3) /pipe clamp *.....	\$268.00
<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)	\$290.00	<input type="checkbox"/>	33E EZconnex® 3-Port, 50', w/10' floats (3) /pipe clamp *.....	\$304.00
			<input type="checkbox"/>	33G EZconnex® 3-Port, 25', w/20' floats (3) /pipe clamp *.....	\$288.00
			<input type="checkbox"/>	33H EZconnex® 3-Port, 50', w/20' floats (3) /pipe clamp *.....	\$324.00
			<input type="checkbox"/>	34D EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp, sealing plug *.....	\$343.00
			<input type="checkbox"/>	34E EZconnex® 4-Port, 50', w/10' floats (3) /pipe clamp, sealing plug *.....	\$388.00
			<input type="checkbox"/>	34G EZconnex® 4-Port, 25', w/20' floats (3) /pipe clamp, sealing plug *.....	\$362.00
			<input type="checkbox"/>	34H EZconnex® 4-Port, 50', w/20' floats (3) /pipe clamp, sealing plug *.....	\$407.00

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