

# MODEL 314 Control Panel

## Three phase, simplex pump control with intrinsically safe circuits.

The Model 314 control panel is designed for applications requiring intrinsically safe float circuits or other circuit extensions. This panel will control one 208/240/480 VAC three phase pump. Two control switches activate a magnetic 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, lift stations, or other installations classified as hazardous locations requiring intrinsically safe circuits.

## PANEL COMPONENTS

- 1. Enclosure** measures 16 x 14 x 6 inches (40.64 x 35.56 x 15.24 cm). NEMA 4X (ultraviolet stabilized thermoplastic with removable flanges for outdoor or indoor use).
- 2. Intrinsically Safe Module** limits the amount of energy to switches preventing ignition of flammable gases.
- 3. Intrinsically Safe Partition** isolates intrinsically safe wiring.
- 4. Motor Protective Switch** provides adjustable overload, branch circuit protection and pump disconnect.
- 5. IEC Motor Contactor** controls pump by switching electrical lines.
- 6. HOA Switch** for manual pump control (mounted on circuit board).
- 7. Multi-tap Transformer** (208/240/480 VAC primary) provides 120V control/alarm voltage or 600VAC primary transformer.
- 8. Green Pump Run Indicator Light** (mounted on circuit board).
- 9. Alarm Fuse** (mounted on circuit board).
- 10. Control Fuse** (mounted on circuit board).
- 11. Input Power Terminal Block**
- 12. Ground Lugs**
- 13. Control Power Indicator Light** (mounted on circuit board).
- 14. Alarm Power Indicator Light** (mounted on circuit board).

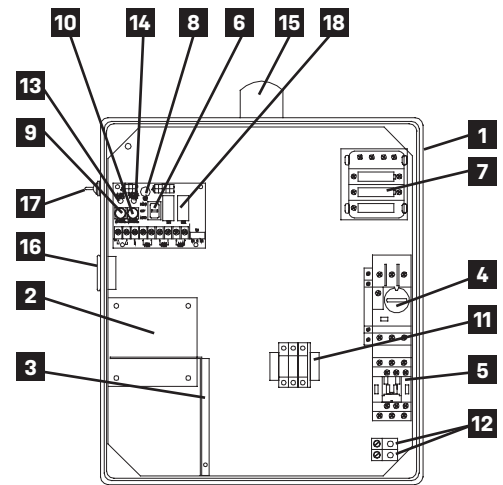
**NOTE:** Schematic/Wiring Diagram is located inside the panel on enclosure cover.

## STANDARD ALARM PACKAGE

- 15. Red Alarm Beacon** provides 360° visual check of alarm condition.
- 16. Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
- 17. 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.
- 18. Horn Silence Relay** (mounted on circuit board).

**NOTE:** (other options available)

**Model 314 control panels cannot be returned. Please refer to the Product Return section.**



Model Shown 3141W511X

## FEATURES

- Industrial control panel is UL Listed relating to hazardous locations with intrinsically safe circuit extensions
- 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



California Prop 65 requires the following:  WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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



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**314****W****MODEL 314****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<br><i>(must select 1E if floats included)</i>                      |
| <input type="checkbox"/> 1C  | Horn only / no visual<br><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<br><i>(select option 4D if floats included, 3C not needed)</i>                  |
| <input type="checkbox"/> 4B  | Red redundant off indicator & alarm<br><i>(must select 4A also)</i>                           |
| <input type="checkbox"/> 4D  | Redundant off float<br><i>(must select 4A option) (must select 17 option)</i>                 |
| <input type="checkbox"/> 5A  | Thermal cutout/heat sensor auto reset<br><i>(for pumps w/thermal switch leads)</i>            |
| <input type="checkbox"/> 5E  | Seal failure circuit & red indicator (2 wire)   |
| <input type="checkbox"/> 5M  | Seal fail alarm activation<br><i>(must selection option 5E)</i>                               |
| <input type="checkbox"/> 6A  | Auxiliary alarm contact, Form C   |
| <input type="checkbox"/> 6G  | Auxiliary contact, dry, seal fail, normally open<br><i>(must select option 5E)</i>            |
| <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<br><i>(lights and switches mounted on inner door)</i> |
| <input type="checkbox"/> 10E | Lockable latch  |
| <input type="checkbox"/> 10G | Lightning arrestor  |
| <input type="checkbox"/> 10K | Anti-condensation heater  |

- | CODE                         | DESCRIPTION  |
|------------------------------|--|
| <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>(rotary style, mounted through door, non-fused, padlockable in the OFF-position, door interlock in the ON-position)</i> |
| <input type="checkbox"/>     | 0-20 FLA   |
| <input type="checkbox"/>     | 20-25 FLA  |
| <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"/> 17C | Sensor Float® / internally weighted ▲ <i>(per float)</i>   |
| <input type="checkbox"/> 17D | Sensor Float® / externally weighted ▲ <i>(per float)</i>   |
| <input type="checkbox"/> 17G | MilliAmpMaster™/ pipe clamp ● <i>(per float)</i>   |
| <input type="checkbox"/> 17H | MilliAmpMaster™/ 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"/> 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 *  |