

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).

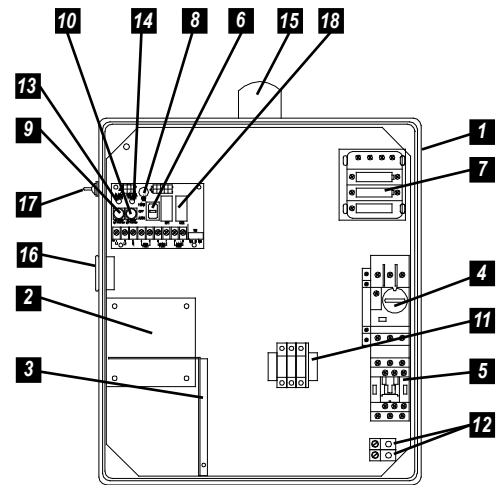
NOTE: Schematic/Wiring Diagram is located inside the panel on enclosure cover.

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' SJE MilliAmpMaster™ control switches
- Complete with step-by-step installation instructions
- Five-year limited warranty



SJE
Rhombus

PO Box 1708, Detroit Lakes, MN 56502
1-888-DIAL-SJE • 1-218-847-1317
1-218-847-4617 Fax

email: customer.service@sjerhombus.com
www.sjerhombus.com B.59

SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.

314

W

MODEL 314

\$2485.00

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

- 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
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) Base
X = no floats
WITH alarm package - \$75.00
WITHOUT alarm package - \$50.00

OPTIONS Listed below

- 1A Red beacon only / no audio \$15.00
1C Horn only / no visual \$15.00
1E Alarm float \$25.00
3A Alarm flasher \$45.00
3B Manual alarm reset \$90.00
3C Red high / low indicator light & alarm activation (4A not needed) \$300.00
3D Float for low indicator \$25.00
3E Float for high indicator \$25.00
4A Redundant off \$55.00
4B Red redundant off indicator & alarm \$220.00
4D Redundant off float \$25.00
5A Thermal cutout/heat sensor auto reset \$40.00
5E Seal failure circuit & red indicator (2 wire) \$160.00
5M Seal fail alarm activation \$60.00
6A Auxiliary alarm contact, form C \$15.00
6G Auxiliary contact, dry, seal fail, normally open \$40.00
8A Elapsed time meter \$75.00

Total Options
TOTAL LIST PRICE

- 8C Event (cycle) counter \$65.00
10A Clear inner swing-out door w/dead front \$170.00
10E Lockable latch \$40.00
10G Lightning arrestor \$200.00
10K Anti-condensation heater \$100.00
11C NEMA 1 alarm panel (must select option 6A) \$80.00
11D NEMA 4X alarm panel (must select option 6A) \$250.00
14B Main disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF-position, door interlock in the ON-position)
0-20 FLA \$285.00
20-25 FLA \$325.00
16A 10' cord in lieu of 20' (per float) - \$2.00
16B 15' cord in lieu of 20' (per float) - \$1.00
16C 30' cord in lieu of 20' (per float) \$5.00
16D 40' cord in lieu of 20' (per float) \$15.00
17C Sensor Float / internally weighted (per float) \$5.00
17D Sensor Float / externally weighted (per float) \$7.00
17G MilliAmpMaster / pipe clamp (per float) \$0.00
17H MilliAmpMaster / externally weighted (per float) \$7.00
17J Sensor Float / pipe clamp (per float) \$0.00
19T TOA (Test/Off/Automatic) switch and pump run light through door mounted \$75.00
19U HOA (Hand/Off/Automatic) switch and pump run light through door mounted \$60.00
19X Door mounted pump run indicator \$30.00

● Mechanically-activated ▲ Mercury-activated

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

SAMPLE

MODEL 314 1 W 401 H 3A 8A 17G
Alarm Package
Enclosure Rating
Pump Full Load Amps
Float Switch Application
Options: Flasher, Elapsed Time Meter,
SJE MilliAmpMaster / pipe clamp

- 314 \$2485.00
1 Base
W Base
401 Base
H Base
3A \$45.00
8A \$75.00
17G \$0.00

TOTAL LIST PRICE \$2605.00