

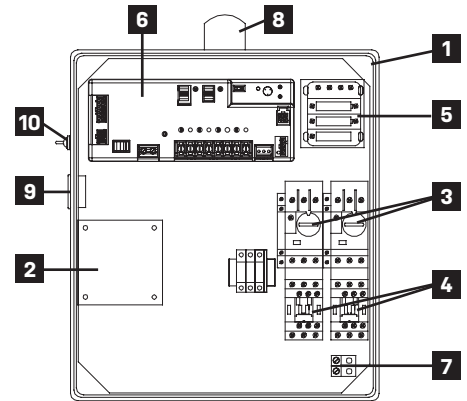
MODEL 324 Control Panel

Three phase, duplex alternating pump control with intrinsically safe circuits.

The Model 324 control panel is designed to control two 208/240/480 VAC three phase pumps for applications requiring intrinsically safe float circuits. The controller is provided with a pump selector switch that can be set to alternate the pumps to equalize wear or to call either pump to activate first with the other pump to activate in lag condition. If an alarm occurs, the alarm activates the audible-visual system. The alarm conditions include: high water, float out-of-sequence, pump fail-to-run, seal failure (optional). 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 mounting feet for outdoor or indoor use).
2. **Intrinsically Safe Module** limits the amount of energy to switches preventing ignition of flammable gases.
3. **Motor Protective Switches** provide adjustable overload, branch circuit protection and pump disconnect.
4. **IEC Motor Contactors** control pumps by switching electrical lines.
5. **Multi-Tap Transformer** (208/240/480 VAC primary or 600 VAC primary transformer) provides 120V control/alarm voltage.
6. **Duplex Controller** provides pump control, alternation and alarm
 - a. HOA switches for manual control Hand/Off/Automatic
 - b. Control Power ON/OFF switch
 - c. Power ON green LED indicator
 - d. Float status red LED indicators
 - e. Float push-to-test buttons
 - f. Pump selector switch: Alt, 1-lead 2-lag, 2-lead 1 lag
 - g. Auxiliary alarm contacts Form-C
 - h. Terminal block: incoming power
 - i. Terminal block: float switches
 - j. Option: adjustable seal failure circuits and red LED indicators



Model Shown
3241W511X6A19B



7. Ground Lugs

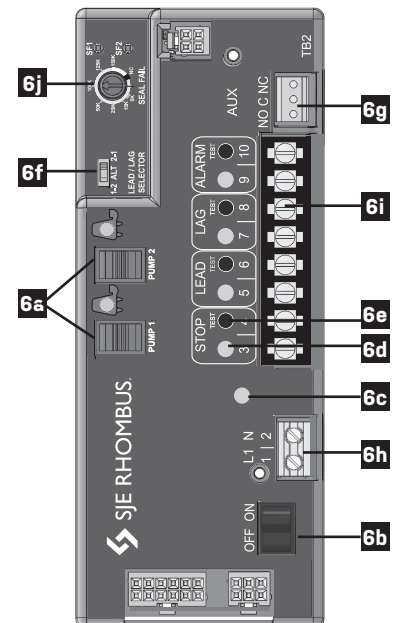
NOTE: Schematic Diagram is located inside the panel on enclosure cover.

STANDARD ALARM PACKAGE

8. **Red Alarm Beacon** provides 360° visual check of alarm condition.
9. **Alarm Horn** provides audible alarm warning (83 to 85 decibel rating).
10. **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.

NOTE: other options available.

Model 324 control panels cannot be returned. Please refer to the Product Return section.



FEATURES

- Industrial control panel is UL-698A Listed relating to hazardous locations with intrinsically safe circuit extensions
- Touch safe circuit board housing and low voltage float circuits
- Constant alarm (field programmable to flash)
- Alarm automatic reset (field programmable to manual alarm reset)
- Float out-of-sequence detection with automatic float reassignment
- Pump fail-to-run detection (field programmable to deactivate)
- Controller protected by four auto resettable fuses, no fuse replacement
- Three second lag pump delay time, prevents simultaneous pump start-up
- 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

SEE REVERSE SIDE FOR ORDERING INFORMATION.



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324 **W** **6A19B**

MODEL 324 \$3,237.00

ALARM PACKAGE

- 0 = select options or no alarm package - \$35.00
- 1 = alarm package (includes test/normal/silence switch, fuse, red light, & horn) Base

ENCLOSURE RATING

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

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 Base
- 105 = 1.6-2.5 FLA Base
- 205 = 2.5-4.0 FLA Base
- 305 = 4.0-6.3 FLA Base
- 405 = 6.0-10.0 FLA Base
- 515 = 9.0-14.0 FLA \$64.00
- 615 = 13.0-18.0 FLA \$64.00
- 625 = 17.0-23.0 FLA \$85.00
- 705 = 20.0-25.0 FLA \$85.00

FLOAT SWITCH APPLICATION

- H or L = pump down or pump up (select 17 option) Base
- E = EZconnex® float switch system (select 34 or 35 option) - \$81.00
- X = no floats - \$81.00

OPTIONS *Listed below*

★ ENCLOSURE UPSIZE - If you selected one or more of the ★ options, add a one-time \$170.00 list enclosure upsize

Total Options _____
 Enclosure Upsize _____
TOTAL LIST PRICE _____

CODE	DESCRIPTION	LIST PRICE
<input type="checkbox"/>	1A Red beacon only / no audio.....	\$21.00
<input type="checkbox"/>	1C Horn only / no visual.....	\$21.00
<input type="checkbox"/>	3A Alarm flasher (factory programmed).....	\$35.00
<input type="checkbox"/>	3B Manual alarm reset (factory programmed).....	\$35.00
<input type="checkbox"/>	★ 3C Red high/low indicator light and alarm activation (4A not needed)	\$318.00
<input type="checkbox"/>	3D Float for low indicator..... (must select option 3C)	\$27.00
<input type="checkbox"/>	★ 4A Redundant off (select option 4D if floats included, 3C not needed)	\$58.00
<input type="checkbox"/>	4B Red redundant off indicator & alarm..... (must select 4A also)	\$74.00
<input type="checkbox"/>	4D Redundant off float (must select 4A option) (must select 17 option)...	\$27.00
<input type="checkbox"/>	5A Thermal cutout/heat sensor auto reset (for pumps w/thermal switch leads)	\$84.00
<input type="checkbox"/>	5E Seal failure circuit & red indicator (2 wire)	\$180.00
<input type="checkbox"/>	5M Seal failure alarm activation (must select option 5E)	\$35.00
<input checked="" type="checkbox"/>	6A Auxiliary alarm contact, Form C.....	\$0.00
<input type="checkbox"/>	★ 6G Auxiliary contact, seal fail,..... normally open (must select option 5E)	\$160.00
<input type="checkbox"/>	★ 8A Elapsed time meter.....	.\$117.00
<input type="checkbox"/>	★ 8C Event (cycle) counter.....	\$95.00
<input type="checkbox"/>	10A Clear inner swing-out door w/dead front..... (lights and switches mounted on inner door)	\$201.00
<input type="checkbox"/>	10E Lockable latch	\$42.00
<input type="checkbox"/>	10G Lightning arrestor.....	\$212.00
<input type="checkbox"/>	★ 10K Anti-condensation heater	\$106.00
<input type="checkbox"/>	11C NEMA 1 alarm panel (must select option 6A).....	\$95.00
<input type="checkbox"/>	11D NEMA 4X alarm panel (must select option 6A).....	\$315.00

CODE	DESCRIPTION	LIST PRICE
<input type="checkbox"/>	★ 14B Main disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF-position, door interlock in the ON-position)	
<input type="checkbox"/>	★ 0-20 FLA (total of both pumps)	\$302.00
<input type="checkbox"/>	★ 20-50 FLA (total of both pumps)	\$345.00
<input type="checkbox"/>	16A 10' cord in lieu of 20' (per float)	- \$3.00
<input type="checkbox"/>	16B 15' cord in lieu of 20' (per float)	- \$2.00
<input type="checkbox"/>	16C 30' cord in lieu of 20' (per float)	\$5.00
<input type="checkbox"/>	16D 40' cord in lieu of 20' (per float)	\$15.00
<input type="checkbox"/>	17C Sensor Float® / internally weighted ▲ (per float)	\$9.00
<input type="checkbox"/>	17D Sensor Float® / externally weighted ▲ (per float)	\$11.00
<input type="checkbox"/>	17G MilliAmpMaster™/ pipe clamp ● (per float)	\$0.00
<input type="checkbox"/>	17H MilliAmpMaster™/ externally weighted ● (per float)	\$7.00
<input type="checkbox"/>	17J Sensor Float® / pipe clamp ▲ (per float)	\$4.00
<input checked="" type="checkbox"/>	19B Lead lag selector switch.....	\$0.00
<input type="checkbox"/>	19F Fourth float to separate alarm function from lag.....	\$186.00
<input type="checkbox"/>	19G Panel wired to accept fourth control switch	\$159.00
<input type="checkbox"/>	19T TOA (Test/Off/Automatic) switches and pump run light through door mounted.....	\$170.00
<input type="checkbox"/>	19U HOA (Hand/Off/Automatic) switches and pump run light through door mounted.....	\$159.00
<input type="checkbox"/>	19X Door mounted pump run indicator.....	\$40.00
<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
<input type="checkbox"/>	35D EZconnex® 4-Port, 25', w/10' floats (4) /pipe clamp *.....	\$379.00
<input type="checkbox"/>	35E EZconnex® 4-Port, 50', w/10' floats (4) /pipe clamp *.....	\$424.00
<input type="checkbox"/>	35G EZconnex® 4-Port, 25', w/20' floats (4) /pipe clamp *.....	\$405.00
<input type="checkbox"/>	35H EZconnex® 4-Port, 50', w/20' floats (4) /pipe clamp *.....	\$450.00

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