

MODEL 124 Control Panel

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

The Model 124 control panel is designed to control two 120/208/240 VAC single 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). **Note:** Options selected may increase enclosure size and change component layout.
2. **Intrinsically Safe Module** limits the amount of energy to switches preventing ignition of flammable gasses.
3. **Circuit Breakers** (optional) provide pump disconnect and branch circuit protection.
4. **IEC Motor Contactors** control pumps by switching electrical lines.
5. **Adjustable Overloads** (optional) provide thermal overload protection for pump.
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
7. **Input Power Terminal Block**
8. **Ground Lugs**

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

STANDARD ALARM PACKAGE

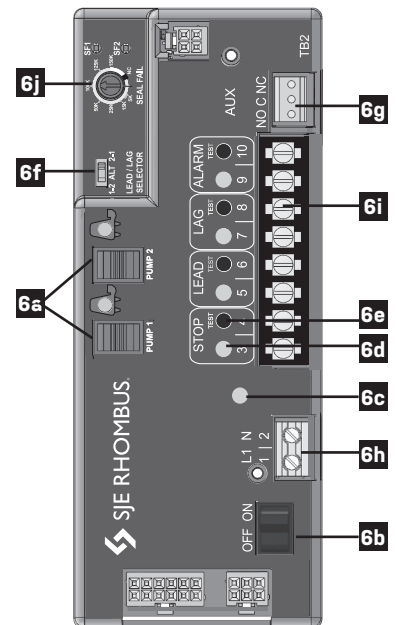
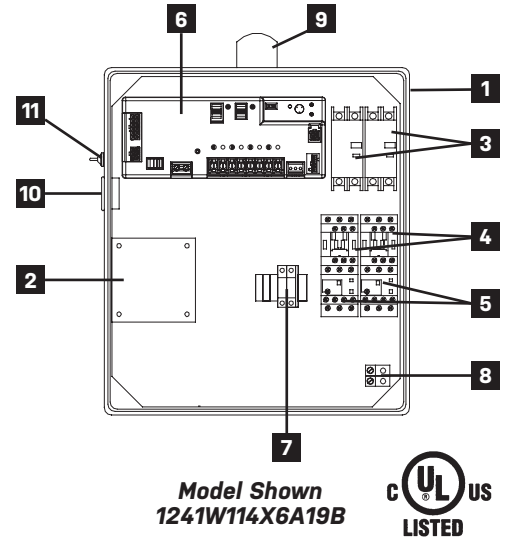
9. **Red Alarm Beacon** provides 360° visual check of alarm condition.
10. **Alarm Horn** provides audible alarm warning (83 to 85 decibel rating).
11. **Exterior Alarm Test/Normal/Silence Switch** allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.

NOTE: other options available.

Model 124 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 12 VDC 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
- Five-year limited warranty. This express warranty does not apply to the motor start kit components. SJE Rhombus will warranty motor start kit components supplied by SJE Rhombus for one year. SJE Rhombus makes no warranties of any type with respect to motor start kits supplied by a customer.



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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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MODEL 124

\$2,568.00

ALARM PACKAGE

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

ENCLOSURE RATING

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

STARTING DEVICE

- 1 = magnetic motor contactor 120/208/240V
9 = magnetic motor contactor 120V only

PUMP FULL LOAD AMPS

- 0 = 0-7 FLA
1 = 7-15 FLA
2 = 15-20 FLA
3 = 20-30 FLA
4 = 30-40 FLA

PUMP DISCONNECTS

- 0 = no pump disconnect
4 = circuit breaker 120V (select STARTING DEVICE option 9 above)
120/208/240V (select STARTING DEVICE option 1 above)

FLOAT SWITCH APPLICATION

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

OPTIONS Listed below

ENCLOSURE UPSIZE - If one or more of the options are selected, add a one-time \$159.00 list enclosure upsize

Total Options
Enclosure Upsize
TOTAL LIST PRICE

Table with columns: CODE, DESCRIPTION, LIST PRICE, CODE, DESCRIPTION, LIST PRICE. Lists various options like 1A Red beacon, 12B Motor start components, 10A Clear inner swing-out door, etc.

* EZconnex mechanically-activated, narrow angle float switches with quick release connections.