

# MODEL 124 Control Panel

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

The Model 124 control panel is designed for applications requiring intrinsically safe float circuits or other circuit extensions. This panel will alternately control two 120/208/240 VAC single phase pumps. The alternating action equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail. If an alarm condition occurs, an 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 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. **Intrinsically Safe Partition** isolates intrinsically safe wiring.
4. **IEC Motor Contactors** control pumps by switching electrical lines.
5. **HOA Switches** for manual pump control (mounted on circuit board).
6. **Alternating Control Circuit Board** provides pump control and alternation. (U.S. patent 5,909,352).
7. **Green Pump Run Indicator Lights** (mounted on circuit board).
8. **Float Status Indicator Lights** (mounted on circuit board).
9. **Input Power Terminal Block**
10. **Ground Lugs**
11. **Control ON/OFF Switch** (mounted on circuit board).
12. **Control/Alarm Power Indicator Light** (mounted on circuit board).
13. **Circuit Breakers** (optional) provide pump disconnect and branch circuit protection.
14. **Adjustable Overloads** (optional) provide thermal overload protection for pump.

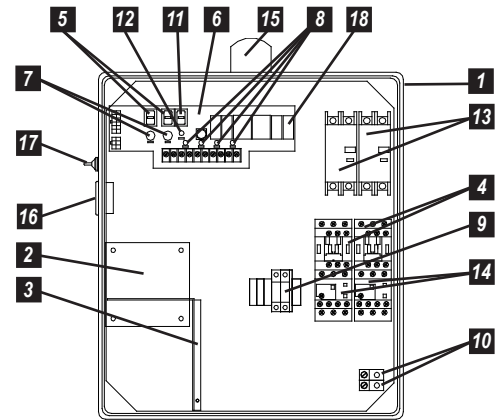
**NOTE:** Schematic/Wiring diagram is located inside the panel on enclosure cover.

## 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 124 control panels cannot be returned. Please refer to the Product Return section.



Model Shown 1241W114X

## 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. 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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SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.

124

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MODEL 124

\$2,378.00

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

Total Options Enclosure Upsize TOTAL LIST PRICE

ENCLOSURE UPSIZE - If one or more of the options are selected, add a one-time \$150.00 list enclosure upsize

Table with columns: CODE, DESCRIPTION, LIST PRICE, CODE, DESCRIPTION, LIST PRICE. Lists various options like 1A Red beacon, 12B Motor start components, 16A 10' cord, etc.

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