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.

**MODEL 324 Control Panel**

**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 realignment
- 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

**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 (must select option 5E when ordering)
7. **Ground Lugs**

**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.
MODEL 324

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

600V

001 = 1.0-1.6 FLA.................................................. Base
005 = 1.0-1.6 FLA.................................................. Base
101 = 1.6-2.5 FLA.................................................. Base
105 = 1.6-2.5 FLA.................................................. Base
201 = 2.5-4.0 FLA.................................................. Base
205 = 2.5-4.0 FLA.................................................. Base
301 = 4.0-6.3 FLA.................................................. Base
305 = 4.0-6.3 FLA.................................................. Base
401 = 6.0-10.0 FLA................................................ Base
405 = 6.0-10.0 FLA................................................ Base
511 = 9.0-14.0 FLA............................................... $64.00
515 = 9.0-14.0 FLA............................................... $64.00
611 = 13.0-18.0 FLA.......................................... $85.00
615 = 13.0-18.0 FLA.......................................... $85.00
621 = 17.0-23.0 FLA........................................ $95.00
625 = 17.0-23.0 FLA........................................ $95.00
701 = 20.0-25.0 FLA......................................... $106.00
705 = 20.0-25.0 FLA......................................... $106.00

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

• Mechanically-activated
• Mercury-activated

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

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