

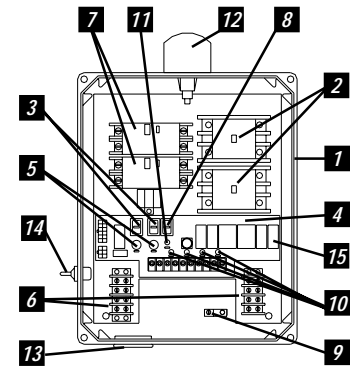
MODEL 122 Control Panel

Single phase, duplex alternating pump control with override.

The Model 122 control panel is designed to alternately control two 120, 208, or 240 VAC single phase pumps in water and sewage installations. 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, sump pump basins, irrigation systems and lift stations.

PANEL COMPONENTS

1. **Enclosure** measures 12 X 10 X 6 inches (30.48 X 25.4 X 15.24 cm). Choice of NEMA 1 (steel for indoor use), or NEMA 4X (ultraviolet stabilized thermoplastic with removable flanges for outdoor or indoor use).
Note: Options selected may increase enclosure size and change component layout.
2. **Magnetic Motor Contactors** control pumps by switching electrical lines.
3. **HOA Switches** for manual pump control (mounted on circuit board).
4. **Control Circuit Board** provides pump control and alternation (U.S. patent 5,909,352).
5. **Green pump Run Indicator Lights** (mounted on circuit board).
6. **Incoming Pump Power Terminal Block / Pump Terminal Block**
7. **Circuit Breakers** (optional) provide pump disconnect and branch circuit protection.
8. **Control ON/OFF Switch** (mounted on circuit board).
9. **Ground Lug**
10. **Float Status Indicator Lights** (mounted on circuit board).
11. **Control / Alarm Power Indicator Light** (mounted on circuit board).



Model Shown 1221W114X

NOTE: Schematic/Wiring Diagram and Terminal Block Installation Label are located inside the panel on enclosure cover.

STANDARD ALARM PACKAGE

12. **Red Alarm Beacon** provides 360° visual check of alarm condition.
Note: NEMA 1 style utilizes a door mounted indicator in lieu of a beacon.
13. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
Note: NEMA 1 style utilizes an internally mounted buzzer in lieu of horn.
14. **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.
15. **Horn Silence Relay** (mounted on circuit board).

NOTE: other options available.

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' Sensor Float® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty



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SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.

122

MODEL 122

ALARMPACKAGE

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

ENCLOSURERATING

- I = Indoor, NEMA 1 (metal)
- W = Weatherproof, NEMA 4X (engineered thermoplastic)

STARTINGDEVICE

- 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

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
- X = no floats

OPTIONS *Listed below*



ENCLOSURE UPSIZE - If one or more of the ★ options are selected, a one-time enclosure upsize fee would apply.

If additional features are required, call the factory for a quote on either a SJE-Rhombus® Pro-Line or Engineered Custom control panel.

CODE DESCRIPTION

- 1A Red beacon only / no audio
(must select "0" for alarm package)
- 1C Horn only / no visual
(must select "0" for alarm package)
- 3A Alarm flasher
- ★ 3B Manual alarm reset
- ★ 4A Low level cutout
(select Option 4D if floats included)
- 4B Red low-level indicator & alarm
(must select Option 4A also)
- 4D Redundant off float switch
- ★ 5A Thermal cutout/heat sensor auto reset
(for pumps w/thermal switch leads)
- ★ 5E Seal failure circuit & red indicator (2 wire)
- 6A Auxiliary alarm contact, form C
- ★ 8A Elapsed time meter
- ★ 8C Event (cycle) counter
- ★ 9_A Pump overload
specify amperage after number 9 followed by letter "A".
Example: 912A = 12 amp pump.
- ★ 0-25 FLA
- ★ 25-30 FLA
- 10E Lockable latch - NEMA 4X
- 10E Lockable latch - NEMA 1
- 10F Lightning arrester
(must select circuit breaker)

CODE DESCRIPTION

- ★ 10K Anti-condensation heater
- 11C NEMA 1 alarm panel
- 11D NEMA 4X alarm panel
- ★ 14B Main disconnect *(rotary style, mounted through door, non-fused)*
- ★ 0-20 FLA (total of both pumps)
- ★ 20-60 FLA (total of both pumps)
- 16A 10' cord in lieu of 20' *(per float)*
- 16B 15' cord in lieu of 20' *(per float)*
- 16C 30' cord in lieu of 20' *(per float)*
- 16D 40' cord in lieu of 20' *(per float)*
- 17A SJE SignalMaster® / pipe clamp ● *(per float)*
- 17B SJE SignalMaster® / externally weighted ● *(per float)*
- 17C Sensor Float® / internally weighted ▲ *(per float)*
- 17D Sensor Float® externally weighted ▲ *(per float)*
- 17E Sensor Float® Mini / pipe clamp ▲ *(per float)*
- 17F Sensor Float® Mini / externally weighted ▲ *(per float)*
- 19B Lead lag selector switch
- 19F Fourth float to separate alarm function from lag
- 19G Panel wired to accept fourth control switch
- 19T TOA (Test/Off/Automatic) switches and pump run lights through door mounted
- 19U HOA (Hand/Off/Automatic) switches and pump run lights through door mounted
- 19X Door mounted pump run indicator
 - Mechanically-activated
 - ▲ Mercury-activated

SAMPLE

MODEL 122 1 W 9 0 4 H 8AC

- Alarm Package
- Enclosure Rating
- Starting Device
- Pump Full Load Amps
- Pump Disconnect
- Float Switch Application
- Options: Elapsed time meter, event (cycle) counter