

MODEL 122 Control Panel

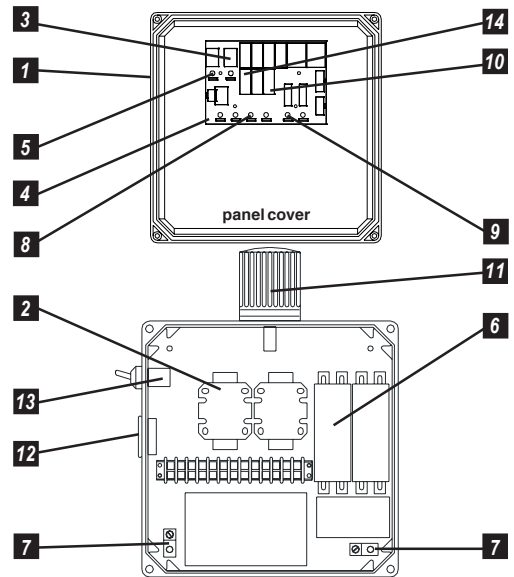
Single phase, duplex alternating pump control with override.

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 10 X 10 X 6 inches (25.4 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.
5. **Green pump Run Indicator Lights** (mounted on circuit board).
6. **Circuit Breakers** (optional) provide pump disconnect and branch circuit protection.
7. **Ground Lug**
8. **Float Status Indicator Lights** (mounted on circuit board).
9. **Control and Alarm Power Indicator Lights** (mounted on circuit board)
10. **Auxiliary Alarm Contact**, form C (mounted on circuit board).

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



Model Shown 1221W114X6A

STANDARD ALARM PACKAGE

11. **Red Alarm Beacon** provides 360° visual check of alarm condition. **Note:** NEMA 1 style utilizes a door mounted indicator in lieu of a beacon.
12. **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.
13. **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.
14. **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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122

6A

MODEL 122

ALARM PACKAGE

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

ENCLOSURE RATING

- I = Indoor, NEMA 1 (metal)
- 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

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 you selected one or more of the ★ options, or two ★★ options, a one-time enclosure upsize fee would apply.

If additional features are required, call the factory for a quote on an Engineered Custom control panel.

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

- | CODE | DESCRIPTION |
|----------------------------|---|
| <input type="checkbox"/> | ★10F Lightning arrester
<i>(must select circuit breaker)</i> |
| <input type="checkbox"/> | ★★10K Anti-condensation heater |
| <input type="checkbox"/> | 11C NEMA 1 alarm panel |
| <input type="checkbox"/> | 11D NEMA 4X alarm panel |
| <input type="checkbox"/> | ★14B Main disconnect <i>(rotary style, mounted through door, non-fused)</i> |
| ★ <input type="checkbox"/> | 0-20 FLA (total of both pumps) |
| ★ <input type="checkbox"/> | 20-60 FLA (total of both pumps) |
| <input type="checkbox"/> | 16A 10' cord in lieu of 20' <i>(per float)</i> |
| <input type="checkbox"/> | 16B 15' cord in lieu of 20' <i>(per float)</i> |
| <input type="checkbox"/> | 16C 30' cord in lieu of 20' <i>(per float)</i> |
| <input type="checkbox"/> | 16D 40' cord in lieu of 20' <i>(per float)</i> |
| <input type="checkbox"/> | 17A SJE SignalMaster® / pipe clamp ● <i>(per float)</i> |
| <input type="checkbox"/> | 17B SJE SignalMaster® / externally weighted ● <i>(per float)</i> |
| <input type="checkbox"/> | 17C Sensor Float® / internally weighted ▲ <i>(per float)</i> |
| <input type="checkbox"/> | 17D Sensor Float® / externally weighted ▲ <i>(per float)</i> |
| <input type="checkbox"/> | 17E Sensor Float® Mini / pipe clamp ▲ <i>(per float)</i> |
| <input type="checkbox"/> | 17F Sensor Float® Mini / externally weighted ▲ <i>(per float)</i> |
| <input type="checkbox"/> | 19B Lead lag selector switch |
| <input type="checkbox"/> | 19F Fourth float to separate alarm function from lag |
| <input type="checkbox"/> | 19T TOA (Test/Off/Automatic) switches and pump run lights through door mounted |
| <input type="checkbox"/> | 19U HOA (Hand/Off/Automatic) switches and pump run lights through door mounted |
| <input type="checkbox"/> | 19X Door mounted pump run indicator
● Mechanically-activated ▲ Mercury-activated |

SAMPLE

MODEL **122** **1** **W** **9** **0** **4** **H** **6A 8AC**

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