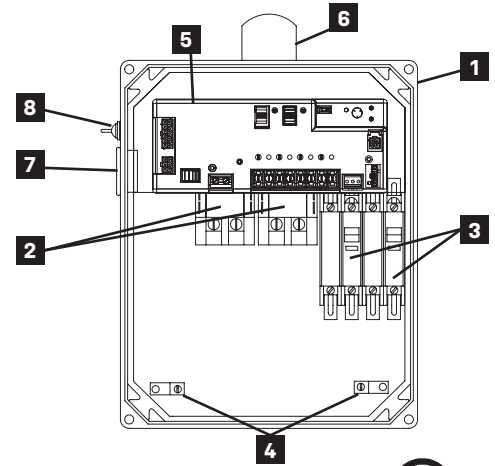# MODEL 122 Control Panel

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 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: lift stations, pump chambers, and irrigation systems.

PANEL COMPONENTS

1. **Enclosure** measures 12x10x6 inches (30.48x24.4x15.24) NEMA 4X (ultraviolet stabilized thermoplastic, padlockable with integral mounting flanges, drip shield, (2) heavy duty cover latches, and stainless steel ¼ turn set screw; for outdoor or indoor use). Note: added options may change enclosure size and enclosure features.

2. **Magnetic Motor Contactors** control pumps by switching electrical lines.

3. **Circuit Breakers** (optional) provide pump disconnect and branch circuit protection.

4. **Ground Lugs**

5. **Duplex Controller** provides pump control, alternation and alarm; elevated in the enclosure for easy access and field wiring
   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)

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

Model Shown
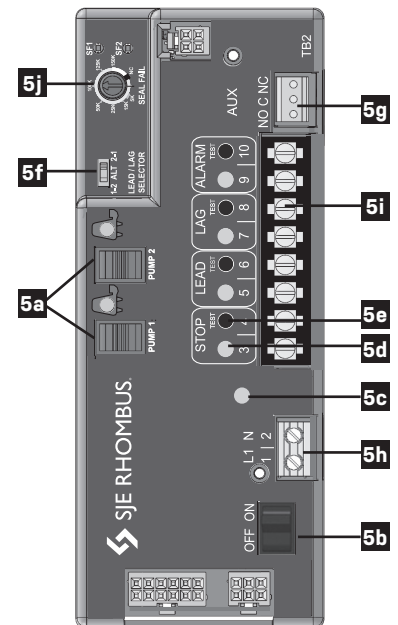*1221W114X6A10E19B*

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STANDARD ALARM PACKAGE

6. **Red Alarm Beacon** provides 360° visual check of alarm condition.

7. **Alarm Horn** provides audible alarm warning (83 to 85 decibel rating).

8. **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 unless the controller is programmed to manual alarm reset.

NOTE: other options available.

FEATURES

- Touch safe circuit board housing and low voltage 12 VDC float circuits
- Alarm (field programmable to flash)
- Alarm automatic reset (field programmable to manual alarm reset)
- Float out-of-sequence detection
- 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.

SEE REVERSE SIDE FOR ORDERING INFORMATION.
SEE PRICE BOOK FOR LIST PRICE.

SJE RHOMBUS®

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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 (select 17 option)
- E = EZconnex® float switch system (select 34 or 35 option)
- X = no floats

OPTIONS *Listed below*

★

ENCLOSURE UPSIZE
If you selected one or more of the ★ options

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 *(factory programmed)*
3B	Manual alarm reset *(factory programmed)*
4A	Redundant off *(select Option 4D if floats included)*
4B	Red redundant off indicator & alarm *(must select Option 4A also)*
4D	Redundant off float *(must select 4A option) (select 17 option)*
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 *(included as standard)* ✔
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 *(included as standard)* ✔
10E	Lockable latch - NEMA 1
10F	Lightning arrestor *(select pump circuit breaker)*
10K	Anti-condensation heater
11C	NEMA 1 alarm panel
11D	NEMA 4X alarm panel
★ 14B	Main disconnect *(rotary style, mounted through door, non-fused,* padlockable in the OFF-position, door interlock in the ON-position) *(must select circuit breaker)*
★	0-20 FLA (total of both pumps)
★	20-60 FLA (total of both pumps)

CODE	DESCRIPTION
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)*
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)*
17G	SJE MilliAmpMaster™/ pipe clamp ● *(per float)*
17H	SJE MilliAmpMaster™/ externally weighted ● *(per float)*
17J	Sensor Float® / pipe clamp ▲ *(per float)*
19B	Lead lag selector switch *(included as standard)* ✔
19F	Fourth float to separate alarm function from lag
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
34D	EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp, sealing plug ✱
34E	EZconnex® 4-Port, 50', w/10' floats (3) /pipe clamp, sealing plug ✱
34G	EZconnex® 4-Port, 25', w/20' floats (3) /pipe clamp, sealing plug ✱
34H	EZconnex® 4-Port, 50', w/20' floats (3) /pipe clamp, sealing plug ✱
35D	EZconnex® 4-Port, 25', w/10' floats (4) /pipe clamp ✱
35E	EZconnex® 4-Port, 50', w/10' floats (4) /pipe clamp ✱
35G	EZconnex® 4-Port, 25', w/20' floats (4) /pipe clamp ✱
35H	EZconnex® 4-Port, 50', w/20' floats (4) /pipe clamp ✱

● Mechanically-activated   ▲ Mercury-activated

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

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