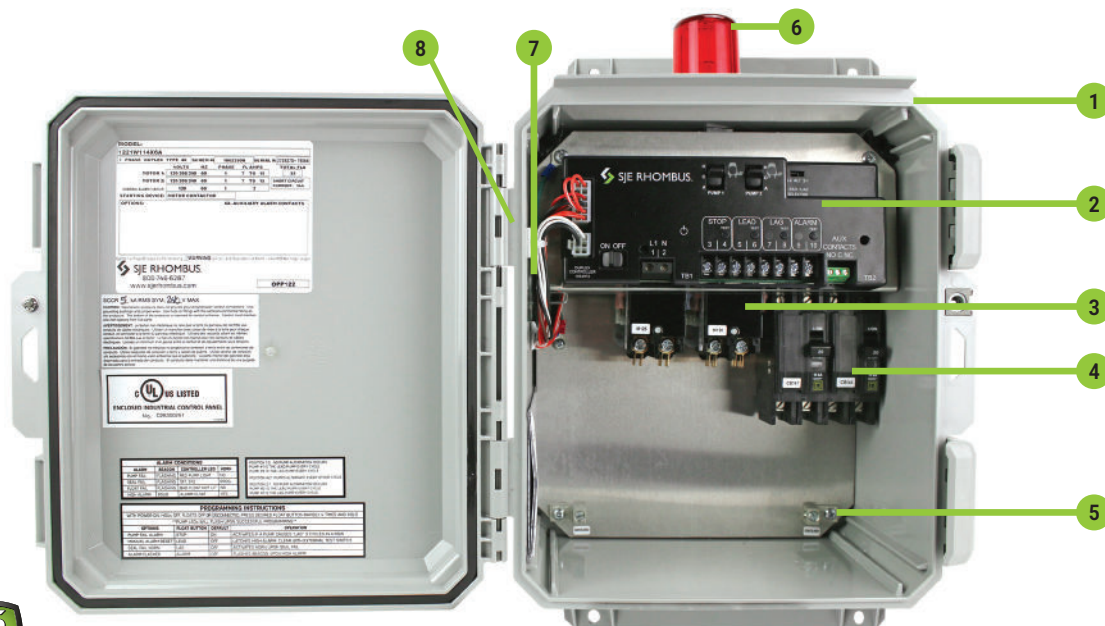# MODEL 122 CONTROL PANEL
Single Phase, Duplex Alternating Pump Control with Override

Panel layout may vary with options.

The newly redesigned Model 122 control panel controls two 120/208/240V single phase pumps in water and sewage installations. This panel includes a new innovative duplex controller for pump control, alternation and alarm; including float status LEDs, control/alarm power on/off switch with LED indicator, pump run LEDs, HOA switches, pump lead lag selector switch, auxiliary contacts and more!

The Model 122 control panel features built in lag pump delay time, pump failure detection, and float out of sequence. In addition, there are four user selectable field programmable operations: alarm steady state or flashing; alarm auto reset or manual reset; pump failure notification; and optional seal failure alarm beacon notification or beacon plus horn activation. This panel is available with optional EZconnex® float connection system.

Other features include:

- 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 (control, alarm, pump 1, and pump 2), no fuse replacement
- Three second lag pump delay time, prevents simultaneous pump start-up

COMPONENTS

1. Enclosure measures 12 x 10 x 6 inches (30.48 x 24.4 x 15.24) 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)
2. Duplex controller provides pump control, alternation and alarm; elevated in the enclosure for easy access and field wiring
   a. HOA switches for manual control of the pump with green/red LED indicators
   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. Separate terminal blocks for incoming power and float switches
   j. Option: adjustable seal failure circuits and red LED indicators (must select option 5E when ordering)
3. Magnetic motor contactors control pumps by switching electrical lines
4. Circuit breakers (optional) provide pump disconnect and branch circuit protection
5. Ground lugs
6. Red LED beacon provides 360° visual check of alarm condition
7. Alarm horn provides audible alarm warning (83 to 85 decibel rating) (Not shown)
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 (Not shown)

Note: Options may increase enclosure size and/or change enclosure features/component layout.

Note: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.

SJE RHOMBUS®

MODEL 122 - Single phase, duplex alternating pump control with override.

Part #	Pre-configured Panels for Easy Ordering
1019842	1221W114H6A10E17G19B
1019462	1221W114X6A10E19B

122	1	W	1		4		6A19B
CONTROL PANEL	ALARM PACKAGE	ENCLOSURE RATING	STARTING DEVICE	PUMP FULL LOAD AMPS	PUMP DISCONNECTS	LEVEL CONTROL APPLICATION	OPTIONS

CONTROL PANEL	✓	122	Single Phase Duplex (includes Options 6A and 19B as standard)
ALARM PACKAGE	✓	1	Alarm Package (includes test/normal/silence switch, red light, & horn)
ENCLOSURE RATING	✓	W	Weatherproof, NEMA 4X (engineered thermoplastic)
STARTING DEVICE	✓	1	Magnetic Motor Contactor 120/208/240V
PUMP FULL LOAD AMPS		0	0 - 7 FLA
		1	7 - 15 FLA
		2	15 - 20 FLA
		3	20 - 30 FLA
PUMP DISCONNECTS	✓	4	Circuit Breaker 120/208/240V
LEVEL CONTROL APPLICATION		H	Pump Down (select Option 17 below)
		L	Pump Up (select Option 17 below)
		E	EZconnex® Float Switch System
		X	No Floats

PRICING WORKSHEET

Model 122 Base Price _____

Alarm Package _____

Enclosure Rating _____

Starting Device _____

Pump Full Load Amps _____

Pump Disconnects _____

Level Control Application _____

Total Options _____

Enclosure Upsize _____

TOTAL LIST PRICE _____

	OPTIONS	DESCRIPTION
	4A	Redundant Off (must also select Option 4D if floats are required)
	4B	Red Redundant Off Indicator & Alarm (must also select Option 4A)
	4D	Redundant Off Float (must also select Option 4A and Option 17)
	5A	Thermal Cutout/Heat Sensor Auto Reset (for pumps with 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, must select Enclosure Rating W above)** / Lockable Latch - NEMA 1
	10F	Lightning Arrestor (select pump circuit breaker)
	10K	Anti-condensation Heater
	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)

	OPTIONS	DESCRIPTION
	16C	30' Cord in Lieu of 20' Cord (per float)
	16D	40' Cord in Lieu of 20' Cord (per float)
	17C	Sensor Float® / Internally Weighted (3 Floats) - Mercury
	17D	Sensor Float® / Externally Weighted (3 Floats) - Mercury
	17E	Sensor Float® Mini / Pipe Clamp (3 Floats) - Mercury
	17F	Sensor Float® Mini / Externally Weighted (3 Floats) - Mercury
	17G	SJE MilliAmpMaster™ / Pipe Clamp (3 Floats) - Mechanical
	17H	SJE MilliAmpMaster™ / Externally Weighted (3 Floats) - Mechanical
	17J	Sensor Float® / Pipe Clamp (3 Floats) - Mercury
✓	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
	33D	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp
	35D	EZconnex® 4-Port, 25', with 10' Floats (4) / Pipe Clamp

For additional control panel options, please contact Technical Support at techsupport@sjeinc.com.

Single Phase