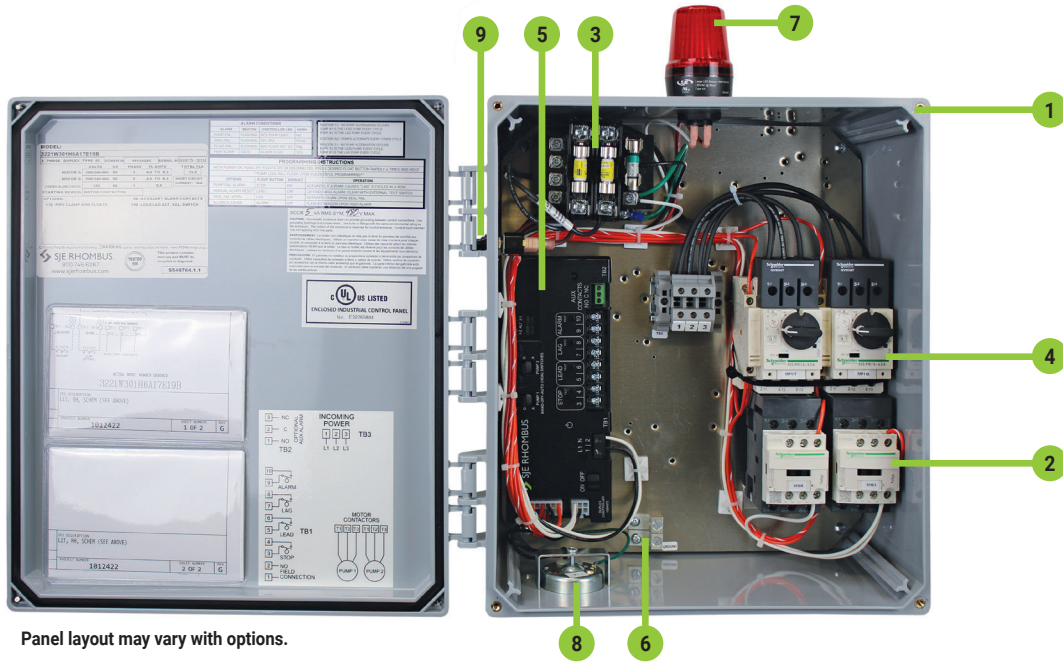# MODEL 322 CONTROL PANEL
Three Phase, Duplex Alternating Pump Control with Override

Panel layout may vary with options.

The newly redesigned Model 322 control panel controls two 208/240/480V three 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 322 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. NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use) enclosure; enclosure measures 14 x 12 x 6 inches (35.56 x 30.48 x 15.24 cm)
2. IEC motor contactors control pumps by switching electrical lines
3. Multi-tap transformer (208/240/480 VAC primary or 600 VAC primary transformer) provides 120 VAC control/alarm voltage
4. Motor protective switches provide adjustable overload, branch circuit protection and pump disconnect
5. 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)
6. Ground lugs
7. Red LED beacon provides 360° visual check of alarm condition
8. Alarm horn provides audible alarm warning (83 to 85 decibel rating)
9. 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: 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®

Three Phase

MODEL 322 - Three phase, duplex alternating pump control with override.

322		W			6A19B
CONTROL PANEL	**ALARM PACKAGE**	**ENCLOSURE RATING**	**PUMP FULL LOAD AMPS**	**FLOAT SWITCH APPLICATION**	**OPTIONS (LISTED BELOW)**

CONTROL PANEL	✓	322	Three Phase Duplex (includes Options 6A and 19B as standard)
ALARM PACKAGE		0	Select Options or No Alarm Package
		1	Alarm Package (includes test/normal/silence switch, red light, & horn)
ENCLOSURE RATING	✓	W	Weatherproof, NEMA 4X (engineered thermoplastic)

PRICING WORKSHEET

Model 322 Base Price _____

Alarm Package _____

Enclosure Rating _____

Pump Full Load Amps _____

Float Switch Application _____

Total Options _____

Enclosure Upsize _____

TOTAL LIST PRICE _____

PUMP FULL LOAD AMPS	208/240/480V		600V	
	001	1.0 - 1.6 FLA	005	1.0 - 1.6 FLA
	101	1.6 - 2.5 FLA	105	1.6 - 2.5 FLA
	201	2.5 - 4.0 FLA	205	2.5 - 4.0 FLA
	301	4.0 - 6.3 FLA	305	4.0 - 6.3 FLA
	401	6.0 - 10.0 FLA	405	6.0 - 10.0 FLA
	511	9.0 - 14.0 FLA	515	9.0 - 14.0 FLA
	611	13.0 - 18.0 FLA	615	13.0 - 18.0 FLA
	621	17.0 - 23.0 FLA	625	17.0 - 23.0 FLA
	701	20.0 - 25.0 FLA	705	20.0 - 25.0 FLA

FLOAT SWITCH APPLICATION	H	Floats - Pump Down (select Option 17 below)
	L	Floats - Pump Up (select Option 17 below)
	E	EZconnex® Float Switch System (select Option 34 or 35 below)
	X	No Floats

ENCLOSURE UPSIZE
If you selected one or more of the ◆ options, **add a one-time charge** for enclosure upsize.

	OPTIONS	DESCRIPTION
	1A	Red Beacon Only / No Audio
	1C	Horn Only / No Visual
	3A	Alarm Flasher (Factory Programmed)
	3B	Manual Alarm Reset (Factory Programmed)
	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
	10A	Clear Inner Swing-Out Door with Dead Front (lights and switches mounted on inner door) **PANELS ORDERED WITH THIS OPTION CANNOT BE RETURNED**
	10E	Lockable Latch
	10G	Lightning Arrestor
	10K	Anti-condensation Heater
	11C	Additional NEMA 1 Remote Alarm Panel
	11D	Additional NEMA 4X Remote Alarm Panel
	14B ◆	Main Disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF position, door interlock in the ON-position) — 0-10 FLA (total of both pumps) / 10-20 FLA (total of both pumps) / 20-50 FLA (total of both pumps)

	OPTIONS	DESCRIPTION
	16A	10' Cord in Lieu of 20' Cord (per float)
	16B	15' Cord in Lieu of 20' Cord (per float)
	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 (per Float) - Mercury
	17D	Sensor Float® / Externally Weighted (per Float) - Mercury
	17E	Sensor Float® Mini / Pipe Clamp (per Float) - Mercury
	17F	Sensor Float® Mini / Externally Weighted (per Float) - Mercury
	17G	SJE MilliAmpMaster™ / Pipe Clamp (per Float) - Mechanical
	17H	SJE MilliAmpMaster™ / Externally Weighted (per Float) - Mechanical
	17J	Sensor Float® / Pipe Clamp (per Float) - 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
	34D ■	EZconnex® 4-Port, 25', with 10' Floats (3) / Pipe Clamp, Sealing Plug
	34E ■	EZconnex® 4-Port, 50', with 10' Floats (3) / Pipe Clamp, Sealing Plug
	34G ■	EZconnex® 4-Port, 25', with 20' Floats (3) / Pipe Clamp, Sealing Plug
	34H ■	EZconnex® 4-Port, 50', with 20' Floats (3) / Pipe Clamp, Sealing Plug
	35D ■	EZconnex® 4-Port, 25', with 10' Floats (4) / Pipe Clamp
	35E ■	EZconnex® 4-Port, 50', with 10' Floats (4) / Pipe Clamp
	35G ■	EZconnex® 4-Port, 25', with 20' Floats (4) / Pipe Clamp
	35H ■	EZconnex® 4-Port, 50', with 20' Floats (4) / Pipe Clamp

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

Three Phase