

# MODEL 322 Control Panel

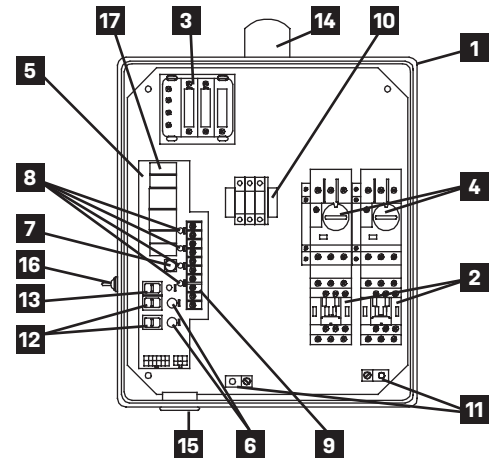
## Three phase, duplex alternating pump control with override.

The Model 322 control panel is designed to alternately control two 208/240/480V three phase pumps in industrial and commercial water and sewage systems. 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, the alarm switch activates the audio/visual alarm system. Common applications include lift stations, pump chambers, and irrigation systems.

## PANEL COMPONENTS

1. **Enclosure** measures 14 x 12 x 6 inches (35.56 x 30.48 x 15.24 cm) NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
2. **IEC Motor Contactors** control pumps by switching electrical lines.
3. **Multi-Tap Transformer** (208/240/480 VAC primary) provides 120V control/alarm voltage. or 600VAC primary transformer.
4. **Motor Protective Switches** provide adjustable overload, branch circuit protection and pump disconnect.
5. **Alternating Circuit Board** provides pump control and alternation (U.S. Patent # 5,909,532).
6. **Green Pump Run Indicator Lights** (mounted on circuit board).
7. **Alarm/Control Fuse** (mounted on circuit board).
8. **Float Status Indicator Lights** (mounted on circuit board).
9. **Float Switch Terminal Block** (mounted on circuit board).
10. **Input Power Terminal Block**
11. **Ground Lugs**
12. **HOA Switches** for manual pump control (mounted on circuit board).
13. **Control ON/OFF Switch** (mounted on circuit board).

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



Model Shown 3221W511X



## STANDARD ALARM PACKAGE

14. **Red Alarm Beacon** provides 360° visual check of alarm condition.
15. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
16. **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.
17. **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' control switches or EZconnex® float system
- Complete with step-by-step installation instructions
- Five-year limited warranty

SEE REVERSE SIDE FOR ORDERING INFORMATION.



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**322**  **W**

**MODEL 322** ..... \$2,042.00

**ALARM PACKAGE**

- 0 = select options or no alarm package ..... - \$35.00
- 1 = alarm package (includes test/normal/silence switch, fuse, red light, & horn) ..... Base

**ENCLOSURE RATING**

- W = Weatherproof, NEMA 4X (engineered thermoplastic) ..... Base

**PUMP FULL LOAD AMPS**

**208/240/480V**

- 001 = 1.0-1.6 FLA
- 101 = 1.6-2.5 FLA
- 201 = 2.5-4.0 FLA
- 301 = 4.0-6.3 FLA
- 401 = 6.0-10.0 FLA
- 511 = 9.0-14.0 FLA
- 611 = 13.0-18.0 FLA
- 621 = 17.0-23.0 FLA
- 701 = 20.0-25.0 FLA

**600V**

- 005 = 1.0-1.6 FLA ..... Base
- 105 = 1.6-2.5 FLA ..... Base
- 205 = 2.5-4.0 FLA ..... Base
- 305 = 4.0-6.3 FLA ..... Base
- 405 = 6.0-10.0 FLA ..... Base
- 515 = 9.0-14.0 FLA ..... \$60.00
- 615 = 13.0-18.0 FLA ..... \$60.00
- 625 = 17.0-23.0 FLA ..... \$80.00
- 705 = 20.0-25.0 FLA ..... \$80.00

**FLOAT SWITCH APPLICATION**

- H or L = pump down or pump up (select 17 option) ..... Base
- E = EZconnex® float switch system (select 34 or 35 option) ..... - \$75.00
- X = no floats ..... - \$75.00

**OPTIONS** Listed below

★ ENCLOSURE UPSIZE - If you selected one or more of the ★ options, add a one-time \$50.00 list enclosure upsize

Total Options \_\_\_\_\_  
 Enclosure Upsize \_\_\_\_\_  
**TOTAL LIST PRICE** \_\_\_\_\_

CODE	DESCRIPTION	LIST PRICE	CODE	DESCRIPTION	LIST PRICE
<input type="checkbox"/>	1A Red beacon only / no audio.....	\$20.00	<input type="checkbox"/>	16A 10' cord in lieu of 20' (per float) .....	- \$2.00
<input type="checkbox"/>	1C Horn only / no visual.....	\$20.00	<input type="checkbox"/>	16B 15' cord in lieu of 20' (per float) .....	- \$1.00
<input type="checkbox"/>	3A Alarm flasher.....	\$35.00	<input type="checkbox"/>	16C 30' cord in lieu of 20' (per float) .....	\$5.00
<input type="checkbox"/>	3B Manual alarm reset .....	\$90.00	<input type="checkbox"/>	16D 40' cord in lieu of 20' (per float) .....	\$15.00
<input checked="" type="checkbox"/>	★ 4A Redundant off .....	\$40.00	<input type="checkbox"/>	17A SJE SignalMaster® / pipe clamp ● (per float) .....	- \$2.00
	(select option 4D if floats included)		<input type="checkbox"/>	17B SJE SignalMaster® / externally weighted ● (per float) .....	\$5.00
<input type="checkbox"/>	4B Red redundant off indicator & alarm.....	\$60.00	<input type="checkbox"/>	17C Sensor Float® / internally weighted ▲ (per float) .....	\$9.00
	(must select 4A also)		<input type="checkbox"/>	17D Sensor Float® / externally weighted ▲ (per float) .....	\$11.00
<input type="checkbox"/>	4D Redundant off float .....		<input type="checkbox"/>	17E Sensor Float® Mini / pipe clamp ▲ (per float) .....	\$2.00
	(must select 4A option) (select 17 option) .....	\$25.00	<input type="checkbox"/>	17F Sensor Float® Mini / externally weighted ▲ (per float) .....	\$9.00
<input checked="" type="checkbox"/>	★ 5A Thermal cutout/heat sensor auto .....	\$80.00	<input type="checkbox"/>	17J Sensor Float® / pipe clamp ▲ (per float) .....	\$4.00
	reset (for pumps w/thermal switch leads)		<input type="checkbox"/>	19B Lead lag selector switch .....	\$15.00
<input checked="" type="checkbox"/>	★ 5 E Seal failure circuit & red indicator .....	\$315.00	<input type="checkbox"/>	19F Fourth float to separate alarm function from lag .....	\$25.00
	(2 wire)		<input type="checkbox"/>	19T TOA (Test/Off/Automatic) switches and pump run lights through door mounted .....	\$160.00
<input type="checkbox"/>	6A Auxiliary alarm contact, form C .....	\$15.00	<input type="checkbox"/>	19U HOA (Hand/Off/Automatic) switches and pump run lights through door mounted .....	\$150.00
<input type="checkbox"/>	8A Elapsed time meter .....	\$110.00	<input type="checkbox"/>	19X Door mounted pump run indicator .....	\$40.00
<input checked="" type="checkbox"/>	★ 8C Event (cycle) counter .....	\$90.00	<input type="checkbox"/>	34D EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp, sealing plug *.....	\$343.00
<input type="checkbox"/>	*10A Clear inner swing-out door w/dead .....	\$190.00	<input type="checkbox"/>	34E EZconnex® 4-Port, 50', w/10' floats (3) /pipe clamp, sealing plug *.....	\$388.00
	front (lights and switches mounted on inner door)		<input type="checkbox"/>	34G EZconnex® 4-Port, 25', w/20' floats (3) /pipe clamp, sealing plug *.....	\$362.00
	*Panels ordered with this option cannot be returned.		<input type="checkbox"/>	34H EZconnex® 4-Port, 50', w/20' floats (3) /pipe clamp, sealing plug *.....	\$407.00
<input type="checkbox"/>	10E Lockable latch .....	\$40.00	<input type="checkbox"/>	35D EZconnex® 4-Port, 25', w/10' floats (4) /pipe clamp *.....	\$379.00
<input type="checkbox"/>	10G Lightning arrestor.....	\$200.00	<input type="checkbox"/>	35E EZconnex® 4-Port, 50', w/10' floats (4) /pipe clamp *.....	\$424.00
<input type="checkbox"/>	10K Anti-condensation heater .....	\$125.00	<input type="checkbox"/>	35G EZconnex® 4-Port, 25', w/20' floats (4) /pipe clamp *.....	\$405.00
<input type="checkbox"/>	11C NEMA 1 alarm panel (select option 6A) .....	\$80.00	<input type="checkbox"/>	35H EZconnex® 4-Port, 50', w/20' floats (4) /pipe clamp *.....	\$450.00
<input type="checkbox"/>	11D NEMA 4X alarm panel (select option 6A) .....	\$250.00			
<input checked="" type="checkbox"/>	★14B Main disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF-position, door interlock in the ON-position)				
<input checked="" type="checkbox"/>	★ 0-10 FLA (total of both pumps) .....	\$285.00			
<input checked="" type="checkbox"/>	★ 10-20 FLA (total of both pumps) .....	\$325.00			
<input checked="" type="checkbox"/>	★ 20-50 FLA (total of both pumps) .....	\$680.00			

● Mechanically-activated ▲ Mercury-activated  
 \* EZconnex® mechanically-activated, narrow angle float switches with quick release connections.