

MODEL 322 Control Panel

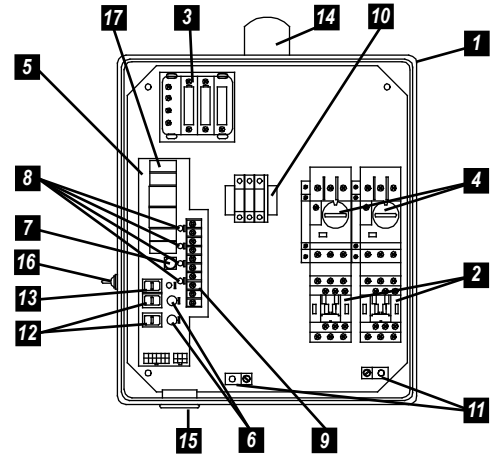
Three phase, duplex alternating pump control with override.

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' SignalMaster® control switches
- Complete with step-by-step installation instructions
- Five-year limited warranty

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SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.

322 **W** **1983.00**

MODEL 322

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
- X = no floats - \$75.00

OPTIONS *Listed below*

Total Options _____

Enclosure Upsize _____

TOTAL LIST PRICE _____

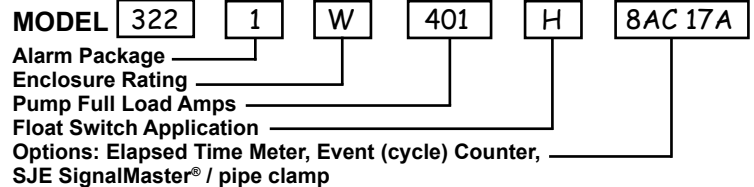
★ ENCLOSURE UPSIZE - If you selected one or more of the ★ options, add a one-time \$50.00 list enclosure upsize

CODE	DESCRIPTION	LIST PRICE	CODE	DESCRIPTION	LIST PRICE
<input type="checkbox"/>	1A Red beacon only / no audio.....	\$20.00	<input type="checkbox"/>	11D NEMA 4X alarm panel (select option 6A)	\$250.00
<input type="checkbox"/>	1C Horn only / no visual.....	\$20.00	<input type="checkbox"/>	★14B Main disconnect (rotary style, mounted through door, non-fused, padlockable in the OFF-position, door interlock in the ON-position)	
<input type="checkbox"/>	3A Alarm flasher	\$35.00	<input type="checkbox"/>	★ 0-10 FLA (total of both pumps)	\$285.00
<input type="checkbox"/>	3B Manual alarm reset.....	\$90.00	<input type="checkbox"/>	★ 10-20 FLA (total of both pumps)	\$325.00
<input type="checkbox"/>	★ 4A Redundant off	\$40.00	<input type="checkbox"/>	★ 20-50 FLA (total of both pumps)	\$680.00
	(select option 4D if floats included)		<input type="checkbox"/>	16A 10' cord in lieu of 20' (per float)	\$2.00
<input type="checkbox"/>	4B Red redundant off indicator & alarm.....	\$60.00	<input type="checkbox"/>	16B 15' cord in lieu of 20' (per float)	\$1.00
	(must select 4A also)		<input type="checkbox"/>	16C 30' cord in lieu of 20' (per float)	\$5.00
<input type="checkbox"/>	4D Redundant off float		<input type="checkbox"/>	16D 40' cord in lieu of 20' (per float)	\$15.00
	(must select 4A option) (select 17 option)	\$25.00	<input type="checkbox"/>	17A SJE SignalMaster® / pipe clamp ● (per float)	\$2.00
<input type="checkbox"/>	★ 5A Thermal cutout/heat sensor auto	\$80.00	<input type="checkbox"/>	17B SJE SignalMaster® / externally weighted ● (per float)	\$5.00
	reset (for pumps w/thermal switch leads)		<input type="checkbox"/>	17C Sensor Float® / internally weighted ▲ (per float)	\$5.00
<input type="checkbox"/>	★ 5 E Seal failure circuit & red indicator	\$315.00	<input type="checkbox"/>	17D Sensor Float® / externally weighted ▲ (per float)	\$7.00
	(2 wire)		<input type="checkbox"/>	17E Sensor Float® Mini / pipe clamp ▲ (per float)	\$2.00
<input type="checkbox"/>	6A Auxiliary alarm contact, form C	\$15.00	<input type="checkbox"/>	17F Sensor Float® Mini / externally weighted ▲ (per float)	\$5.00
<input type="checkbox"/>	8A Elapsed time meter	\$110.00	<input type="checkbox"/>	17J Sensor Float® / pipe clamp ▲ (per float)	\$0.00
<input type="checkbox"/>	★ 8C Event (cycle) counter.....	\$90.00	<input type="checkbox"/>	19B Lead lag selector switch	\$15.00
<input type="checkbox"/>	*10A Clear inner swing-out door w/dead	\$190.00	<input type="checkbox"/>	19F Fourth float to separate alarm function from lag	\$25.00
	front (lights and switches mounted on inner door)		<input type="checkbox"/>	19T TOA (Test/Off/Automatic) switches and pump run lights through door mounted	\$160.00
	*Panels ordered with this option cannot be returned.		<input type="checkbox"/>	19U HOA (Hand/Off/Automatic) switches and pump run lights through door mounted	\$150.00
<input type="checkbox"/>	10E Lockable latch	\$40.00	<input type="checkbox"/>	19X Door mounted pump run indicator	\$40.00
<input type="checkbox"/>	10G Lightning arrester	\$200.00			
<input type="checkbox"/>	10K Anti-condensation heater	\$125.00			
<input type="checkbox"/>	11C NEMA 1 alarm panel (select option 6A)	\$80.00			

● Mechanically-activated ▲ Mercury-activated

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

SAMPLE



322	\$1983.00
1	Base
W	Base
401	Base
H	Base
8A	\$110.00
8C	\$90.00
17A	\$6.00
Enclosure Upsize	\$50.00
TOTAL LIST PRICE	\$2227.00