

MODEL 322 Control Panel

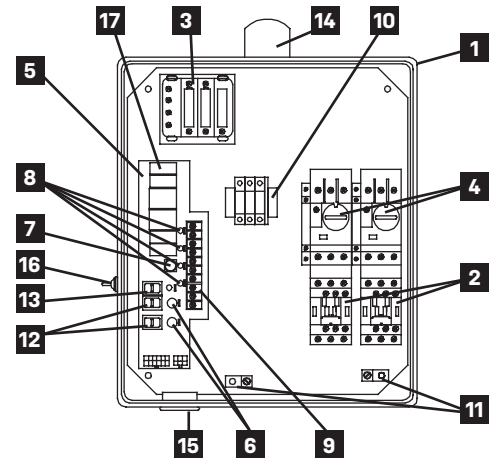
Three phase, duplex alternating pump control with override.

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.
SEE PRICE BOOK FOR LIST PRICE.**



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322**W****MODEL 322****ALARM PACKAGE**

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

ENCLOSURE RATING

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

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
 105 = 1.6-2.5 FLA
 205 = 2.5-4.0 FLA
 305 = 4.0-6.3 FLA
 405 = 6.0-10.0 FLA
 515 = 9.0-14.0 FLA
 615 = 13.0-18.0 FLA
 625 = 17.0-23.0 FLA
 705 = 20.0-25.0 FLA

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
 1C Horn only / no visual
 3A Alarm flasher
 3B Manual alarm reset
 ★ 4A Redundant off
(select option 4D if floats included)
 4B Red redundant off indicator & alarm
(must select 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
 8A Elapsed time meter
 ★ 8C Event (cycle) counter
 *10A Clear inner swing-out door w/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 NEMA 1 alarm panel (select option 6A)
 11D NEMA 4X alarm panel (select option 6A)
 ★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)

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)
 17A SJE SignalMaster® / pipe clamp ● (per float)
 17B SJE SignalMaster® / externally weighted ● (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)
 17J Sensor Float® / pipe clamp ▲ (per float)
 19B Lead lag selector switch
 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.