MODEL 322 Control Panel

Three phase, duplex alternating pump control with override.

The Model 322 control panel is designed to alternately control two 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

- 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.
- Multi-Tap Transformer (208/240/480 VAC primary) provides 120V control voltage.
- Motor Protective Switches provide adjustable overload, branch circuit protection and pump disconnect.
- 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).
- Control ON/OFF Switch (mounted on circuit board).

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

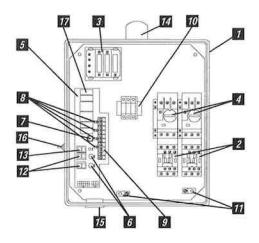
STANDARD ALARM PACKAGE

- 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.
- 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
- Three-year limited warranty



Model Shown 3221W511X



322 W	
MODEL 322	
ALARMPACKAGE 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)	
208/230/460 PUMP FULL LOAD AMPS 721 = 24.5-30.0 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 511 = 9.0-14.0 FLA 611 = 13.0-18.0 FLA 621 = 17.0-23.0 FLA 701 = 20.0-25.0 FLA 721 = 24.5-30.0 FLA 723 = 24.5-30.0 725 = 24.5-30.0 725 = 24.5-30.0 725 = 24.5-30.0 725 = 24.5-30.0 725 = 29.0-36.0 725 = 29.0-36.0 725 = 29.0-36.0 725 = 29.0-36.0 726 = 20.0-25.0 FLA 727 = 33.0-38.0 728 = 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	D FLA D FLA D FLA D FLA
FLOAT SWITCH APPLICATION — Hor L = pump down or pump up (select 17 option)	J
OPTIONS Listed below	
ENCLOSURE UPSIZE - If you selected one or more of the ★ options, a one-time enclosure upsize would apply.	
CODE DESCRIPTION 1 A Red beacon only / no audio 1 C Horn only / no visual 3 A Alarm flasher 3 B Manual alarm reset 3 K Redundant off (select option 4D if floats included) 4 B Red redundant off indicator & alarm (must select 4A also) 4 D Redundant off float (must select 4A option) (select 17 option) 4 Thermal cutout/heat sensor auto reset (for pumps w/thermal switch leads) 5 Seal failure circuit & red indicator (2 wire) 6 A Auxiliary alarm contact, form C 8 A Elapsed time meter 8 C Event (cycle) counter 10 Lockable latch 10 K Anti-condensation heater 10 NEMA 4X alarm panel (select option) 11 NEMA 1 alarm panel (select option) 12 NEMA 1 alarm panel (select option) 13 NEMA 20-50 FLA (total of both pumps) 14 10 NEMA 2 Ned or in lieu of 20' (per float) 14 10 NEMA 1 alarm panel (select option)	(per float) ghted ● (per float) ♠ (per float) ♠ (per float) ♠ (per float)
If additional features are required, call the factory for a quote on an Engineered Custom control panel.	
SAMPLE MODEL 322 1 W 401 H 8AC 17A	
Alarm Package Enclosure Rating Pump Full Load Amps Float Switch Application Options: Elapsed Time Meter, Event (cycle) Counter, SignalMaster® / pipe clamp	