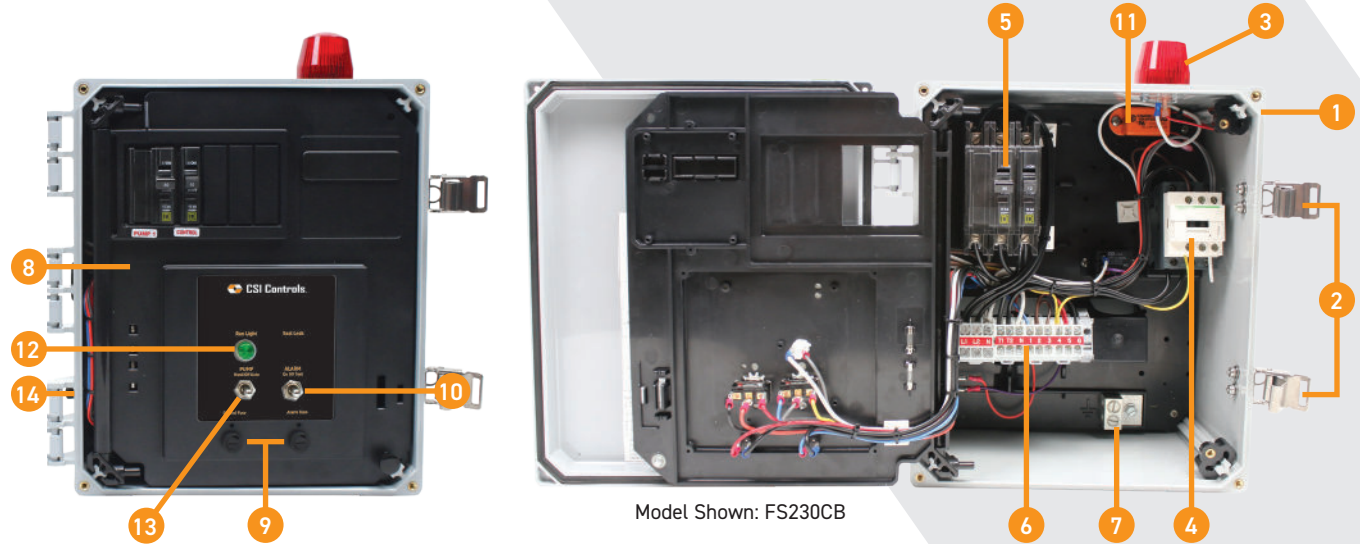


# Fusion™ Single Phase Simplex Control Panel

Single Phase, Simplex Demand Dose or Timed Dose Float Controlled System for Pumping Applications



Model Shown: FS230CB

The Fusion™ Single Phase Simplex control panels utilize a traditional relay logic component-style design. Applications include sump and sewage basins, septic tanks, aeration systems, cisterns, atmospheric storage tanks, chemical solution tanks and more.

## FEATURES

- NEMA 4X engineered thermal plastic enclosure with mounting feet and lockable latches
- Flashing red 360° alarm beacon with an electronic horn, and test/silence switch
- Pump Hand-Off-Auto switch to manually activate pump, set in automatic float level control, or disable the pump operation
- Pump Run light to provide visual notification when the pump is called to run
- Includes easy access removable fuses
- Timed dose control option available



## OPTIONS

- Amber beacon
- Manual Alarm Reset
- Elapse Time Meter
- Heavy duty increases the circuit breakers and wire gauge  
HD1 12-18FLA  
HD2 18-24FLA
- Heat sensor terminals
- Anti-condensation heater
- Lightning arrestor
- Low level alarm
- Overloads
- Seal Failure indicator light
- Time Dosing operation
- Auxiliary alarm contacts
- Float configurations

## COMPONENTS

1. NEMA 4X enclosure rated for indoor or outdoor use
2. Lockable latches for added safety
3. 360° red alarm beacon for visual alert
4. IEC motor contactor controls the pump motor load by switching the electrical lines
5. Circuit breakers provide pump and control/alarm disconnect and branch circuit protection
6. Terminal strip easy field wiring of incoming power, floats, and pump
7. Ground lugs
8. Molded inner door protects from high voltage, and mounting location for indicators, and switches
9. Control circuit and alarm circuit fuses easy access touch safe fuse replacement
10. Alarm Arm-Off-Test to disable or test the alarm
11. Alarm Flasher provides alarm flashing circuitry
12. Green Pump Run light provides indication when pump is called to run
13. Pump Hand-Off-Auto switch provides manual pump control
14. External Alarm Silence button to silence the audible alarm



# CSI Controls®

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## FUSION™ SINGLE PHASE SIMPLEX CONTROL PANEL

Model	MAX FLA	Enclosure Type	Input Power VAC - PH	Circuit Breakers
FS115CB	12	NEMA 4X	115-1	Motor & Control
FS115ACB	12	NEMA 4X	115-1	Motor, Control & Alarm
FS230CB	12	NEMA 4X	230-1	Motor & Control
FS230ACB	12	NEMA 4X	230-1	Motor, Control & Alarm
FS230CBG	12	NEMA 4X	230-1	Motor & Control, Capacitor Circuitry*
FS230ACBG	12	NEMA 4X	230-1	Motor, Control & Alarm, Capacitor Circuitry*
Options	Description			
AMB	Amber beacon (red beacon is standard)			
AR	Manual Alarm Reset			
EC	Elapsed Time Meter and Cycle Counter			
FC20	(3) 20 foot (6.1m) mechanical control switches / pipe clamp			
FC20CW	(3) 20 foot (6.1m) mechanical control switches / cable weight			
FR20	(3) 20 foot (6.1m) mercury control switches / pipe clamp			
FR20CW	(3) 20 foot (6.1m) mercury control switches / cable weight			
FC30	(3) 30 foot (9.1m) mechanical control switches / pipe clamp			
FC30CW	(3) 30 foot (9.1m) mechanical control switches / cable weight			
FR30	(3) 30 foot (9.1m) mercury control switches / pipe clamp			
FR30CW	(3) 30 foot (9.1m) mercury control switches / cable weight			
FC50	(3) 50 foot (15.2m) mechanical control switches / pipe clamp			
FC50CW	(3) 50 foot (15.2m) mechanical control switches / cable weight			
FR50	(3) 50 foot (15.2m) mercury control switches / pipe clamp			
FR50CW	(3) 50 foot (15.2m) mercury control switches / cable weight			
HD1	Heavy Duty 1: Increases breakers and wire gauge to allow 12-18 FLA			
HD2	Heavy Duty 2: Increases breakers and wire gauge to allow 18-24 FLA			
HS	Heat Sensor Terminals			
HTR	Anti-Condensation Heater			
LA	Lightning Arrestor			
LL	Low Level Alarm (control switch not included)			
OL##	Pump Overload - specify amperage after OL (Example: OL02 = 2 amp pump, OL20 = 20 amp pump)			
SF	Seal Failure Indicator Light			
TD	Time Dosing Operation			
X	Auxiliary Alarm			

\*Contact factory for capacitor circuitry details.

**SEE PRICE BOOK FOR LIST PRICE.**

## SPECIFICATIONS

**VOLTAGE SUPPLY:** Pump: 115 VAC or 230 VAC 50/60 Hz 1∅  
Control/Alarm: 115 VAC 60 Hz 1∅

**ENCLOSURE:** 12 x 10 x 6 inch (30.5 x 25.4 x 15.2 cm)  
NEMA 4X ultraviolet stabilized thermoplastic rated for indoor/outdoor use with mounting feet

**INNER DOOR:** molded thermoplastic

**LOCKING LATCHES (2):** stainless steel, padlockable

**FLOAT CONTROL VOLTAGE:** 115 VAC

**MOTOR STARTER:** IEC magnetic motor contactor

**PUMP AMPS:** 0-12 Amps, 12-18 Amps, 18-24 Amps

**ALARM HORN:** 83-85 decibel rating

**FLASHING RED LED ALARM LIGHT 360°**



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California Prop 65 requires the following: WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov