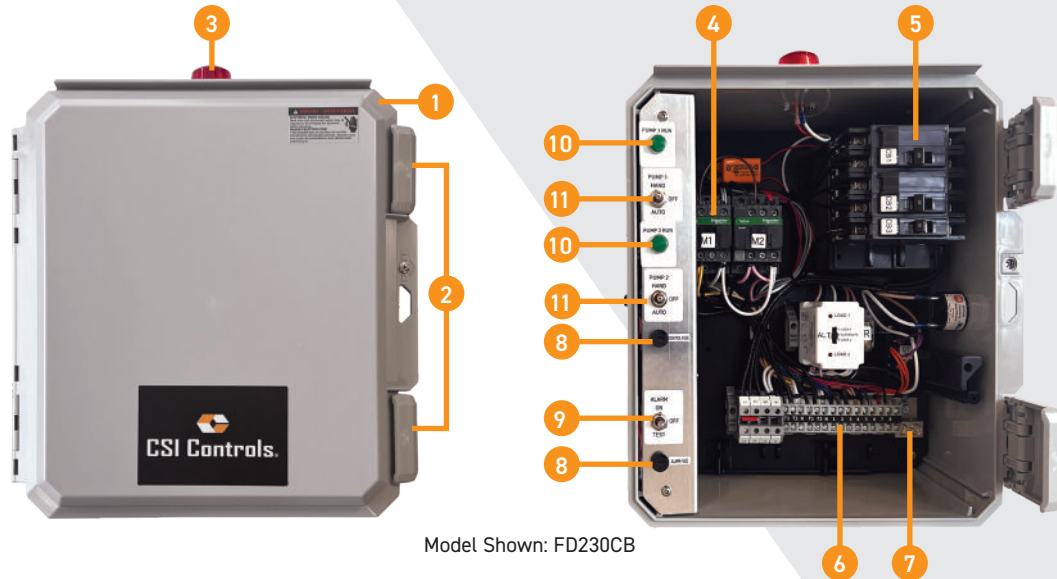


Fusion™ Single Phase Duplex Control Panel

Single Phase, Duplex Demand Dose Float Controlled System for Pump Control and System Monitoring



The Fusion™ Single Phase Duplex 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 thermoplastic enclosure with 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 lights to provide visual notification when the pumps are called to run
- Includes easy access fuses



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
- 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 contactors control 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 pumps
7. Ground lugs
8. Control circuit and alarm circuit fuses easy access touch safe fuse replacement
9. Alarm Arm-Off-Test switch to disable or test the alarm
10. Green Pump Run lights provides indication when pump is called to run
11. Pump Hand-Off-Auto switches provides manual pump control
12. External Alarm Silence button to silence the audible alarm (not shown)



CSI Controls®

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FUSION™ SINGLE PHASE DUPLEX CONTROL PANEL

Model	MAX FLA	Enclosure Type	Input Power VAC - PH	Circuit Breakers
FD115	12	NEMA 4X	115-1	None
FD115CB	12	NEMA 4X	115-1	Motor & Control
FD115ACB	12	NEMA 4X	115-1	Motor, Control & Alarm
FD230	12	NEMA 4X	230-1	None
FD230CB	12	NEMA 4X	230-1	Motor & Control
FD230ACB	12	NEMA 4X	230-1	Motor, Control & Alarm
Options	Description			
AMB	Amber beacon (red beacon is standard)			
AR	Manual Alarm Reset			
EC	Elapsed Time Meter and Cycle Counter			
FC20	(4) 20 foot (6.1m) mechanical control switches / pipe clamp			
FC20CW	(4) 20 foot (6.1m) mechanical control switches / cable weight			
FR20	(4) 20 foot (6.1m) mercury control switches / pipe clamp			
FR20CW	(4) 20 foot (6.1m) mercury control switches / cable weight			
FC30	(4) 30 foot (9.1m) mechanical control switches / pipe clamp			
FC30CW	(4) 30 foot (9.1m) mechanical control switches / cable weight			
FR30	(4) 30 foot (9.1m) mercury control switches / pipe clamp			
FR30CW	(4) 30 foot (9.1m) mercury control switches / cable weight			
FC50	(4) 50 foot (15.2m) mechanical control switches / pipe clamp			
FC50CW	(4) 50 foot (15.2m) mechanical control switches / cable weight			
FR50	(4) 50 foot (15.2m) mercury control switches / pipe clamp			
FR50CW	(4) 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			
X	Auxiliary Alarm			

SEE PRICE BOOK FOR LIST PRICE.

SPECIFICATIONS

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

ENCLOSURE: 14 x 12 x 6 inch (35.6 x 30.5 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 contactors

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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