

Fusion™ Three Phase Duplex Control Panel

Three Phase, Duplex Alternating Pump Control



The Fusion™ Three Phase Duplex control panel is designed to alternately control two 208/240/480 VAC three phase pumps in industrial and commercial water and sewage systems. The alternating action equalizes pump wear. If an alarm condition occurs, the alarm switch activates the audible/visual alarm system. Common applications include lift stations, pump chambers, and irrigation systems.

FEATURES

- NEMA 4X engineered thermoplastic enclosure with lockable cover
- Flashing red 360° alarm beacon with an electronic horn, and test/silence switch
- Pump Hand-Off-Auto switches to manually activate a 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
- DPC-4F Pump Controller



OPTIONS

- Amber beacon
- Elapse Time Meters/Event counters
- Heat sensor terminals
- Anti-condensation heater
- Lightning arrestor
- Seal Failure indicator lights
- Auxiliary alarm contacts
- Float configurations

COMPONENTS

1. NEMA 4X enclosure rated for indoor or outdoor use
 - a. Padlockable cover
 - b. Mounting flanges
2. Multi-Tap Transformer 208/240/480 VAC primary incoming voltage with primary and secondary fuses
3. IEC motor contactors control the pump motor load by switching the electrical lines
4. Motor Protective Switches provide adjustable overload, branch circuit protection, phase loss/imbalance protection and pump disconnect
5. DPC-4F Pump Controller
 - a. Float Status Indicator Lights
 - b. Pump Run LED's
 - c. Power On Light
 - d. Lead/Lag Selector Switch
 - e. Lag Pump on Delay Timer
 - f. Low Voltage Float Switch Terminal Block
6. 360° red alarm beacon for visual alert
7. Ground lugs
8. Control/alarm circuit fuse
9. 22mm Green Pump Run lights provides indication when pump is called to run
10. 22mm Pump Hand-Off-Auto switches provides manual pump control
11. Alarm Horn provides audible warning of alarm condition, 83 to 85 decibel (not shown)
12. 22mm External Alarm test/Silence Button (not shown)



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FUSION™ THREE PHASE DUPLEX CONTROL PANEL

Model	FLA Range	Enclosure Type	Input Power VAC - PH
FD463-001*	1.0-1.6	NEMA 4X	208/240/480-3
FD463-101*	1.6-2.5	NEMA 4X	208/240/480-3
FD463-201*	2.5-4.0	NEMA 4X	208/240/480-3
FD463-301*	4.0-6.3	NEMA 4X	208/240/480-3
FD463-401*	6.0-10.0	NEMA 4X	208/240/480-3
FD463-511*	9.0-14.0	NEMA 4X	208/240/480-3
FD463-611*	13.0-18.0	NEMA 4X	208/240/480-3
FD463-621*	17.0-23.0	NEMA 4X	208/240/480-3
FD463-701*	20.0-25.0	NEMA 4X	208/240/480-3
FD463-801*	24.0-32.0	NEMA 4X	208/240/480-3
Options	Description		
AMB	Amber beacon (red beacon is standard)		
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		
HS	Heat Sensor Terminals		
HTR	Anti-Condensation Heater		
LA	Lightning Arrestor		
SF	Seal Failure Indicator Light		
X	Auxiliary Alarm		

*3 phase 600 VAC option available. Please contact factory for details.

SEE PRICE BOOK FOR LIST PRICE.

SPECIFICATIONS

VOLTAGE SUPPLY: 208/240/480 VAC 60 Hz 3∅

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 flanges, padlockable cover

INNER DOOR: molded thermoplastic

FLOAT CONTROL VOLTAGE: 12 VDC

MOTOR STARTER: IEC motor protection switches and IEC motor contactors

PUMP AMPS: 1-32 Amps

ALARM HORN: 83-85 decibel rating

FLASHING RED LED ALARM LIGHT 360°



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