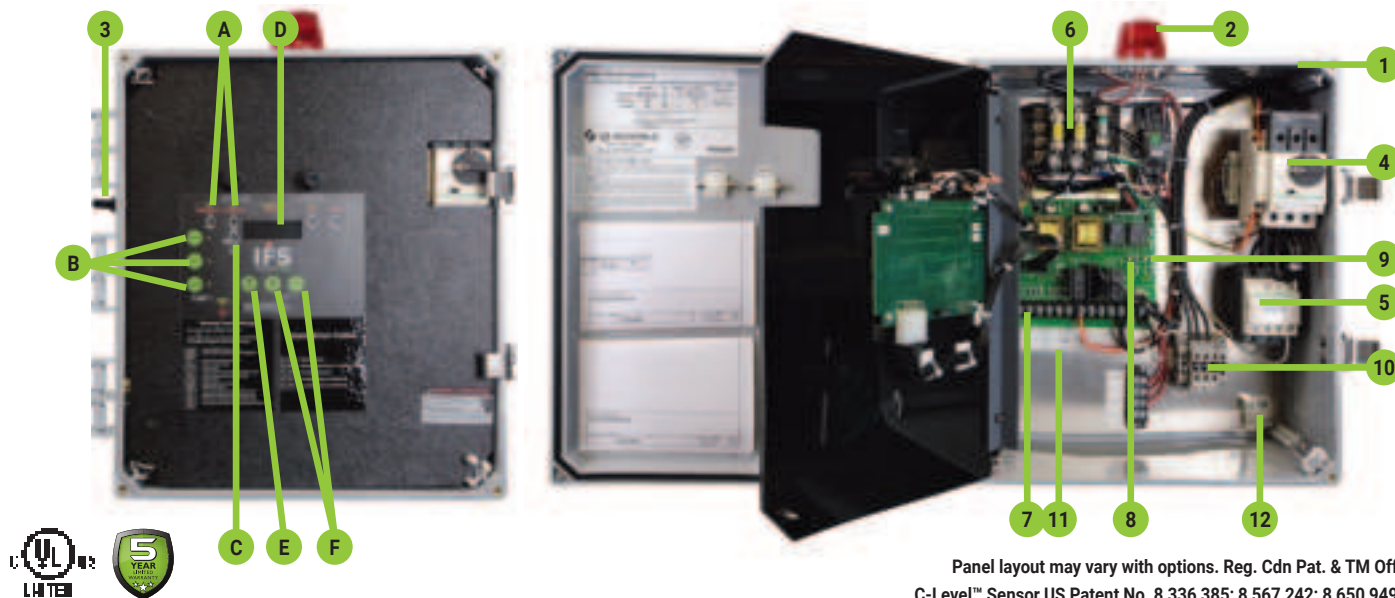


INSTALLER FRIENDLY SERIES® (IFS)

THREE PHASE SIMPLEX

Demand Dose or Timed Dose, Float or C-Level™ Sensor Controlled System for Pump Control and System Monitoring



The IFS simplex control panel utilizes an innovative circuit board design to control one 208/240/480 VAC three phase pump in water and sewage applications. IFS panels feature an easy-to-use touch pad on inner door for programming and system monitoring. The panel configuration can be easily converted in the field to either a timed dose or demand dose. Available with the EZconnex® float system.

The panel can utilize the C-Level™ sensor for continuous level monitoring. It senses the level in the tank and sends a signal to the panel. Pump activation levels can be adjusted by using the panel touch pad. C-Level™ CL40 sensor operating range is 3-39.9 inches (7.6-101.3 cm). C-Level™ CL100 operating range is 3-99.5 inches (7.6-252.7 cm).

TOUCH PAD FEATURES

- A. Level Status indicators illuminate when floats or set points are activated; alarm will activate if a float operates out of sequence
- B. HOA (Hand-Off-Automatic) buttons control pump mode with indication; Hand mode defaults to Automatic when stop level or redundant off level is reached
- C. Pump Run indicator will illuminate when pumps are called to run
- D. LED Display for system information including: level in inches or centimeters (C-Level™ only), mode, pumps elapsed time (hh:mm), events (cycles), alarm counter, float error count, timed dose override counter (timed dose only), and ON/OFF times (timed dose only)
- E. NEXT push button toggles display
- F. UP and SET push buttons set pump ON/OFF times (timed dose only) and activation levels (C-Level™ only)

COMPONENTS

- 1. Enclosure base 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. Red LED beacon provides 360° visual check of alarm condition
- 3. 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
- 4. Motor protective switch provides adjustable overload, branch circuit protection and pump disconnect
- 5. IEC motor contactor controls pump by switching electrical lines
- 6. Multi-tap transformer (208/240/480 VAC primary) provides 120 VAC control alarm voltage or 600 VAC primary transformer
- 7. Float connection terminal block
- 8. Control Power indicator/fuse indicator light illuminates if control power is present in panel; alarm will activate if control fuse is blown
- 9. Alarm Power indicator/fuse indicator light illuminates if alarm power is present in panel
- 10. Large incoming power connection terminal block
- 11. Terminal block float wiring label
- 12. Ground lugs
- 13. Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating) (Not shown)

Note: Options, voltage, and amp range selected may change enclosure size and component layout.

Note: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.



INSTALLER FRIENDLY SERIES® THREE PHASE SIMPLEX - Demand or timed dose float controlled system for pump control and system monitoring.

IFS CONTROL PANEL	5 MODEL TYPE	1 ALARM PACKAGE	W ENCLOSURE RATING	PUMP FULL LOAD AMPS	FLOAT SWITCH APPLICATION	8AC OPTIONS (LISTED BELOW)
-------------------------	--------------------	-----------------------	--------------------------	------------------------	-----------------------------	-------------------------------

CONTROL PANEL	✓	IFS			
MODEL TYPE	✓	5	Three Phase Simplex (includes Option 8AC as standard)		\$2,326.00
ALARM PACKAGE	✓	1	Alarm Package (includes test/normal/silence switch, fuse, red light, & horn)		Base
ENCLOSURE RATING	✓	W	Weatherproof, NEMA 4X (engineered thermoplastic)		Base
PUMP FULL LOAD AMPS			208/240/480V	600V	
		001	1.0 - 1.6 FLA	005	1.0 - 1.6 FLA
		101	1.6 - 2.5 FLA	105	1.6 - 2.5 FLA
		201	2.5 - 4.0 FLA	205	2.5 - 4.0 FLA
		301	4.0 - 6.3 FLA	305	4.0 - 6.3 FLA
		401	6.0 - 10.0 FLA	405	6.0 - 10.0 FLA
		511	9.0 - 14.0 FLA	515	9.0 - 14.0 FLA
		611	13.0 - 18.0 FLA	615	13.0 - 18.0 FLA
		621	17.0 - 23.0 FLA	625	17.0 - 23.0 FLA
		701	20.0 - 25.0 FLA	705	20.0 - 25.0 FLA
FLOAT SWITCH APPLICATION		H	Floats - Pump Down (select Option 17 below)		Base
		E	EZconnex® Float Switch System (select Option 33 or 34 below)		- \$102.00
		X	No Floats		- \$102.00
		C	C-Level™ Sensor (select Option 24 or 29) Select Option 3E and/or 4A & 4D for high water alarm and/or redundant off floats		- \$102.00

PRICING WORKSHEET	
IFS Three Phase Simplex Base Price	\$2,326.00
Alarm Package	_____
Enclosure Rating	_____
Pump Full Load Amps	_____
Float Switch Application	_____
Total Options	_____
TOTAL LIST PRICE	_____

NOTE: Pump down applications only. Industry practices suggest that a secondary device, such as a float switch, be used for redundant activation of the high level alarm and pump shut off when using the C-Level™ sensor.

OPTIONS	DESCRIPTION	LIST PRICE	OPTIONS	DESCRIPTION	LIST PRICE
3A	Alarm Flasher	\$66.00	17C	Sensor Float® / Internally Weighted (per Float) - Mercury	\$13.00
3B	Manual Alarm Reset	\$119.00	17D	Sensor Float® / Externally Weighted (per Float) - Mercury	\$15.00
3E	High Water Alarm Float (must also select Option 17) Only Available with Float Switch Application = C	\$34.00	17G	SJE MilliAmpMaster™ / Pipe Clamp (per Float) - Mechanical	\$0.00
4A	Redundant Off (must also select Option 4D if floats are required)	\$72.00	17H	SJE MilliAmpMaster™ / Externally Weighted (per Float) - Mechanical	\$8.00
4D	Redundant Off Float (must also select Option 4A and Option 17)	\$34.00	17J	Sensor Float® / Pipe Clamp (per Float) - Mercury	\$6.00
5A	Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads)	\$51.00	24E	C-Level™ CL40 Sensor with 4' Vent Tube and 20' Cord	\$349.00
5E	Seal Failure Circuit and Red Indicator (2 Wire)	\$198.00	24F	C-Level™ CL40 Sensor with 4' Vent Tube and 40' Cord	\$384.00
6A	Auxiliary Alarm Contact, Form C	\$51.00	24G	C-Level™ CL40 Sensor with 8' Vent Tube and 20' Cord	\$354.00
✓ 8AC	Display Board - Includes: ETM Counter, Events (Cycles) Counter, Alarm Counter (included as standard)	\$0.00	24H	C-Level™ CL40 Sensor with 8' Vent Tube and 40' Cord	\$390.00
10E	Lockable Latch - NEMA 4X	\$51.00	24X	No C-Level™ CL40 Sensor	\$0.00
10G	Lightning Arrestor	\$247.00	29A	C-Level™ CL100 Sensor with 10' Vent Tube and 20' Cord	\$359.00
10K	Anti-condensation Heater	\$124.00	29B	C-Level™ CL100 Sensor with 10' Vent Tube and 40' Cord	\$396.00
11C	Additional NEMA 1 Remote Alarm Panel (must also select Option 6A)	\$114.00	29X	No C-Level™ CL100 Sensor	\$0.00
11D	Additional NEMA 4X Remote Alarm Panel (must also select Option 6A)	\$368.00	33D ■	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp	\$313.00
16A	10' Cord in Lieu of 20' Cord (per Float)	-\$3.00	33E ■	EZconnex® 3-Port, 50', with 10' Floats (3) / Pipe Clamp	\$355.00
16B	15' Cord in Lieu of 20' Cord (per Float)	-\$2.00	33G ■	EZconnex® 3-Port, 25', with 20' Floats (3) / Pipe Clamp	\$337.00
16C	30' Cord in Lieu of 20' Cord (per Float)	\$6.00	33H ■	EZconnex® 3-Port, 50', with 20' Floats (3) / Pipe Clamp	\$379.00
16D	40' Cord in Lieu of 20' Cord (per Float)	\$18.00	34D ■	EZconnex® 4-Port, 25', with 10' Floats (3) / Pipe Clamp, Sealing Plug	\$400.00
			34E ■	EZconnex® 4-Port, 50', with 10' Floats (3) / Pipe Clamp, Sealing Plug	\$454.00
			34G ■	EZconnex® 4-Port, 25', with 20' Floats (3) / Pipe Clamp, Sealing Plug	\$423.00
			34H ■	EZconnex® 4-Port, 50', with 20' Floats (3) / Pipe Clamp, Sealing Plug	\$476.00

■ EZconnex® mechanically-activated, narrow angle float switches with quick release connections