## INSTALLER FRIENDLY SERIES® (IFS) SINGLE PHASE SIMPLEX

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





Panel layout may vary with options.

Reg. Cdn Pat. & TM Off
C-Level™ Sensor US Patent No. 8,336,385; 8,567,242; 8,650,949

The Next Generation IFS simplex control panel utilizes an innovative circuit board design enclosed in a touch-safe housing to control one 120/208/240V single phase pump in water and sewage applications. These newly redesigned IFS panels feature an easy-to use color LCD interface located on the 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 through the LCD interface. Available with the EZconnex® float system.

The panel can easily be changed in the field to utilize either floats or the patented C-Level™ sensor for continuous level monitoring. The C-Level™ sensor senses the level in the tank and sends a signal to the panel. Pump activation levels can be adjusted by using the LCD interface. 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).

- Five-year limited warranty on panel
- Two-year limited warranty on C-Level™ Sensor

## LCD INTERFACE FEATURES

- Full color graphics and menu navigation encoder for easy setup
- Touch safe housing
- Pump Hand/Off/Auto Control selectable via menu navigation
- C-Level™ Sensor or Float operation selectable via menu navigation
- Demand or Timed Dose operation selectable via menu navigation
- Tank Level Indication and setpoint monitoring at-a-glance
- Lead pump is easily identified by a graphic ring around the current lead pump regardless of control mode (timed dose or demand)
- Displays remaining time in each active ON or OFF Timed Dose mode, as well as at-a-glance ON or OFF time elapsed graphic around lead pump
- · RJ45 communication connector
- Flashing function for alarm beacon and horn (configurable)
- Manual alarm reset (configurable)



## **COMPONENTS**

- Enclosure measures 12 x 10 x 6 inches (30.48 x 24.4 x 15.24) NEMA 4X (ultraviolet stabilized thermoplastic, padlockable with integral mounting flanges, drip shield, heavy duty cover latches, and stainless steel ¼ turn set screw; for outdoor or indoor use)
- 2. Red Alarm Beacon provides 360° visual check of alarm condition
- 3. Circuit breakers provides pump power disconnect and branch circuit protection included as standard on all panels
- C-Level<sup>™</sup> Sensor and float connection terminal blocks
- Controller Features:
  - a. Incoming Control/Alarm Power terminal blocks
  - b. Control/Alarm Power/System Status green LED indicators illuminate if control/alarm power is present and controller is operating\*
  - Controller status green LED indicators for: Power/Active, Float Input Status, Pump Run, C-Level Active\*
  - d. Normally open auxiliary alarm contacts included as standard
  - e. Control Power On/Off switch
  - f. Green LED Pump Run indicators illuminate when pump is called to run\*
  - g. Control panel able to operate if LCD interface fails or is disconnected
  - h. Touch safe housing
- Alarm Horn provides audible warning of alarm condition (not shown)
- Exterior Alarm Test/Silence push button allows horn and light to be tested and horn to be silenced in an alarm condition; alarm automatically resets once alarm condition is cleared (not shown)
- Modbus Port (RJ45) for future expansion eg. seal fail modules, remote monitoring, valve control, In-Site®, logging, etc. (not shown)
- \*In fault condition, LED indicators will be red.

Note: Added options, voltage, and amp range selected may change enclosure size and enclosure features, and component layout.

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

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

IFN	2	$\neg \sqcap$	1 W 1 4	6A8AC	10E
	ODEL YPE		ALARM ENCLOSURE STARTING PUMP FULL PUMP FLOAT SWIT ACKAGE RATING DEVICE LOAD AMPS DISCONNECTS APPLICATI	CH OPTIONS (LISTED	BELOW)
CONTROL PANEL	/	IFN			
MODEL TYPE	1	2	Single Phase Simplex (includes Options 6A, 8AC and 10E as standard)	IFS Simplex Base Price	
ALARM PACKAGE	1	1	Alarm Package (includes test/normal/silence switch, fuse, red light, & horn)		
ENCLOSURE RATING	1	W	Weatherproof, NEMA 4X (engineered thermoplastic)	Alarm Package	
STARTING DEVICE	1	1	120/208/240V		
PUMP FULL		0	0-7 FLA	Enclosure Rating .	
LOAD AMPS		1	7 - 15 FLA	五	
LOAD AIIII G		2	15 - 20 FLA	Starting Device	
PUMP DISCONNECTS	1	4	Circuit Breaker 120/208/240V	NO N	
		Н		Pump Full Load Amps .  Pump Disconnects .	
FLOAT SWITCH APPLICATION		Е	EZconnex® Float Switch System	Float Switch Application	
AFFEIGATION		Х	No Floats	Total Options	
		С	C-Level™ Sensor (select Option 24 or 29)* Select Option 3E and/or 4D for high water alarm and/or redundant off floats	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		OPTIONS	DESCRIPT	
	1J	Duo Alarm Inputs		17C	Sensor Float® / Internally Weighted (per Flo	
	25	High Water Alarm Float (must also select Option 17)		17D	Sensor Float® / Externally Weighted (per Fl	
3E	High Water Alarm Float (must also select Option 17) Only Available with Float Switch Application = C		17G	SJE MilliAmpMaster™ / Pipe Clamp (per Fl		
	4D	Redundant Off Float (must also select Option 17) Only Available with Float Switch Application = C		17H	SJE MilliAmpMaster™ / Externally Weighte	
	40			17J	Sensor Float® / Pipe Clamp (per Float) - M	
✓	6A	Auxiliary Alarm Contact, Form A included as standard)		19F	Additional 4th Float (for Timed Dose Appli Only Available with Float Switch Application	
		Disable Board Inches STM County Fronts (Coulty) County Many		195		
✓	8AC	Display Board - Includes: ETM Counter, Events (Cycles) Counter, Alarm Counter, and Override Counter (Timed Dose Only) (included as standard)		24E	C-Level™ CL40 Sensor with 25' Vented Cab	
	405			24F	C-Level™ CL40 Sensor with 50' Vented Cab	
<b>/</b>	10E	Lockable Latch - NEMA 4X (included as standard)		24P	C-Level™ CL40 Sensor with 100' Vented Ca	
	10F	Lightning Arrestor (must also select Option 15A)		24X	No C-Level™ CL40 Sensor	
	10K	Anti-condensation Heater (must also select Option 15A)		29A	C-Level™ CL100 Sensor with 25' Vented Ca	
	11C	Additional NEMA 1 Remote Alarm Panel		29B	C-Level™ CL100 Sensor with 50' Vented Ca	
	11D	Additional NEMA 4X Remote Alarm Panel		29C	C-Level™ CL100 Sensor with 100' Vented C	
	15A	Control/Alarm Circuit Breaker		29X	No C-Level™ CL100 Sensor	
	16A	10' Cord in Lieu of 20' Cord (per Float)		33D <b></b>	EZconnex® 3-Port, 25', with 10' Floats (3) /	
	16B	15' Cord in Lieu of 20' Cord (per Float)		33E	EZconnex® 3-Port, 50', with 10' Floats (3) /	
	16C	30' Cord in Lieu of 20' Cord (per Float)		33G	EZconnex® 3-Port, 25', with 20' Floats (3) /	
	16D	40' Cord in Lieu of 20' Cord (per Float)		33H	EZconnex® 3-Port, 50', with 20' Floats (3) /	
				0011	LECOTITION 0 1 011, 00 , WILLI 20 1 10dt3 (0) /	

<sup>\*</sup>C-Level™ Sensor lengths up to 300 ft. available. Call for details.

<sup>■</sup> EZconnex® mechanically-activated, narrow angle float switches with quick release connections

OPTIONS	DESCRIPTION	
17C	Sensor Float® / Internally Weighted (per Float) - Mercury	
17D	Sensor Float® / Externally Weighted (per Float) - Mercury	
17G	SJE MilliAmpMaster™ / Pipe Clamp (per Float) - Mechanical	
17H	17H SJE MilliAmpMaster™ / Externally Weighted (per Float) - Mechanical	
17J	Sensor Float® / Pipe Clamp (per Float) - Mercury	
19F	Additional 4th Float (for Timed Dose Applications Only) Only Available with Float Switch Application = H	
24E	C-Level™ CL40 Sensor with 25' Vented Cable	
24F	C-Level™ CL40 Sensor with 50' Vented Cable	
24P	C-Level™ CL40 Sensor with 100' Vented Cable	
24X	No C-Level™ CL40 Sensor	
29A	C-Level™ CL100 Sensor with 25' Vented Cable	
29B	C-Level™ CL100 Sensor with 50' Vented Cable	
29C	C-Level™ CL100 Sensor with 100' Vented Cable	
29X	No C-Level™ CL100 Sensor	
33D	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp	
33E	EZconnex® 3-Port, 50', with 10' Floats (3) / Pipe Clamp	
33G 🔳	EZconnex® 3-Port, 25', with 20' Floats (3) / Pipe Clamp	
33H 🔳	EZconnex® 3-Port, 50', with 20' Floats (3) / Pipe Clamp	
35D	EZconnex® 4-Port, 25', with 10' Floats (4) / Pipe Clamp	
35E <b>■</b>	EZconnex® 4-Port, 50', with 10' Floats (4) / Pipe Clamp	
35G <b>■</b>	EZconnex® 4-Port, 25', with 20' Floats (4) / Pipe Clamp	
35H <b>■</b>	EZconnex® 4-Port, 50', with 20' Floats (4) / Pipe Clamp	