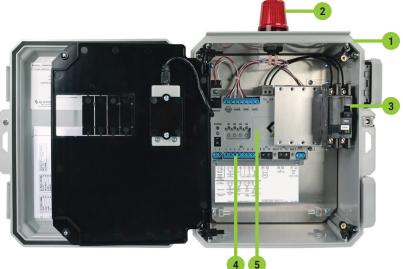
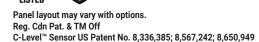
## INSTALLER FRIENDLY SERIES® (IFS) SINGLE PHASE SIMPLEX

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







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<sup>™</sup> sensor for continuous level monitoring. The C-Level<sup>™</sup> 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<sup>™</sup> CL40 sensor operating range is 3-39.9 inches (7.6-101.3 cm). C-Level<sup>™</sup> CL100 operating range is 3-99.5 inches (7.6-252.7 cm). The C-Level<sup>™</sup> Sensor features a five year limited warranty.

## LCD INTERFACE FEATURES

- Full color graphics and menu navigation encoder for easy setup
- Touch safe housing

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- Pump Hand/Off/Auto Control selectable via menu navigation
- C-Level<sup>™</sup> 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
- 4. C-Level<sup>™</sup> Sensor and float connection terminal blocks
- 5. 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\*
  - c. 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
- 6. 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<sup>®</sup>, 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.

9500053L Rev 03/22 © 2020 SJE, Inc. All Rights Reserved. SJE Rhombus is a trademark of SJE, Inc. **INSTALLER FRIENDLY SERIES® SINGLE PHASE SIMPLEX -** Demand or timed dose float controlled system for pump control and system monitoring.

IFN	N 2		W 1			4		6A8AC10E
CONTROL PANEL	MODEL TYPE	ALARM PACKAGE	ENCLOSURE RATING	STARTING DEVICE	PUMP FULL LOAD AMPS	PUMP DISCONNECTS	FLOAT SWITCH APPLICATION	OPTIONS (LISTED BELOW)

CONTROL PANEL	1	IFN			
MODEL TYPE	1	2	Single Phase Simplex (includes Options 6A, 8AC and 10E as standard)	IFS Simplex Base Price	
ALARM PACKAGE	<ul> <li>Image: A set of the set of the</li></ul>	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	<ul> <li>Image: A set of the set of the</li></ul>	1	120/208/240V	<b>–</b>	
		0	0 - 7 FLA	Enclosure Rating	
PUMP FULL LOAD AMPS		1	7 - 15 FLA	I	
		2	15 - 20 FLA	Starting Device	
PUMP DISCONNECTS	<ul> <li>Image: A set of the set of the</li></ul>	4	Circuit Breaker 120/208/240V	OR	
		Н	Floats - Pump Down (select Option 17 below) Timed dose = redundant off, timer enable, alarm / Demand dose = stop, start, alarm (all systems will ship with 3 floats by default)	Pump Full Load Amps _ 92 Pump Disconnects _	
FLOAT SWITCH APPLICATION		E	EZconnex® Float Switch System (select Option 33 or 35 below)	Float Switch Application	
AFFLICATION		Х	No Floats	Total Options	
		С	C-Level <sup>™</sup> 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<sup>™</sup> sensor.

	OPTIONS	DESCRIPTION	0P <sup>-</sup>	TIONS	DESCRIPTION
	1J	Duo Alarm Inputs	1	7C	Sensor Float $^{\circ}$ / Internally Weighted (per Float) - Mercury
	3E	High Water Alarm Float (must also select Option 17) Only Available with Float Switch Application = C		7D	Sensor Float® / Externally Weighted (per Float) - Mercury
	3E	Only Available with Float Switch Application = C	1	7G	SJE MilliAmpMaster™ / Pipe Clamp (per Float) - Mechanical
	4D	Redundant Off Float (must also select Option 17)		7H	SJE MilliAmpMaster™ / Externally Weighted (per Float) - Mechanical
	40	Only Available with Float Switch Application = C	1	7J	Sensor Float® / Pipe Clamp (per Float) - Mercury
1	6A	Auxiliary Alarm Contact, Form C included as standard) Display Board - Includes: ETM Counter, Events (Cycles) Counter, Alarm Counter, and Override Counter (Timed Dose Only) (included as standard)		9F	Additional 4th Float (for Timed Dose Applications Only) Only Available with Float Switch Application = H
1	8AC			24E C-Level <sup>™</sup> CL40 Sensor with 4' Vent Tube and 20' Cord	
	105	Ladable Label AFRAA AV (maladad as sheedaad)	2	24F	C-Level <sup>™</sup> CL40 Sensor with 4' Vent Tube and 40' Cord
✓	10E	Lockable Latch - NEMA 4X (included as standard)	2	4G	C-Level <sup>™</sup> CL40 Sensor with 8' Vent Tube and 20' Cord
	10F	Lightning Arrestor (must also select Option 15A)	2	4H	C-Level <sup>™</sup> CL40 Sensor with 8' Vent Tube and 40' Cord
	10K	Anti-condensation Heater (must also select Option 15A)	2	4X	No C-Level <sup>™</sup> CL40 Sensor
	11C	Additional NEMA 1 Remote Alarm Panel         Additional NEMA 4X Remote Alarm Panel         Control/Alarm Circuit Breaker         10' Cord in Lieu of 20' Cord (per Float)		9A	C-Level <sup>™</sup> CL100 Sensor with 10' Vent Tube and 20' Cord
	11D			9B	C-Level <sup>™</sup> CL100 Sensor with 10' Vent Tube and 40' Cord
	15A			9X	No C-Level™ CL100 Sensor
	16A			D	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp
	16B	15' Cord in Lieu of 20' Cord (per Float)		E	EZconnex® 3-Port, 50', with 10' Floats (3) / Pipe Clamp
	16C	30' Cord in Lieu of 20' Cord (per Float)			
	16D	40' Cord in Lieu of 20' Cord (per Float)		G	EZconnex® 3-Port, 25', with 20' Floats (3) / Pipe Clamp
		N /		H	EZconnex® 3-Port, 50', with 20' Floats (3) / Pipe Clamp
				D	EZconnex® 4-Port, 25', with 10' Floats (4) / Pipe Clamp
			35	ie 📕	EZconnex® 4-Port, 50', with 10' Floats (4) / Pipe Clamp
			35	iG 📕	EZconnex <sup>®</sup> 4-Port, 25', with 20' Floats (4) / Pipe Clamp

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

35H EZconnex<sup>®</sup> 4-Port, 50', with 20' Floats (4) / Pipe Clamp



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