INSTALLER FRIENDLY SERIES® (IFS) SINGLE PHASE DUPLEX

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 duplex control panel utilizes an innovative circuit board design enclosed in a touch-safe housing to control two 120/208/240V single phase pumps 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). The C-Level[™] Sensor features a five year limited warranty.

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

2. Red Alarm Beacon provides 360° visual check of alarm condition

4 5

- 3. Circuit breakers provides pump power disconnect and branch circuit protection included as standard on all panels
- 4. C-Level[™] 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[®], 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.

95000540-WEB Rev 06/23 © 2020 SJE, Inc. All Rights Reserved, SJE Rhombus is a trademark of SJE, Inc INSTALLER FRIENDLY SERIES® SINGLE PHASE DUPLEX - Demand or timed dose float controlled system for pump control and system monitoring.

IFN	4	1	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	 ✓ 	4	Single Phase Duplex (includes Options 6A, 8AC and 10E as standard)	\$1,599.00		IFS Duplex Base Price	\$1,599.0
	ALARM PACKAGE	 ✓ 	1	Alarm Package (includes test/normal/silence switch, fuse, red light, & horn)	Base			
	ENCLOSURE RATING	1	W	Weatherproof, NEMA 4X (engineered thermoplastic)	Base		Alarm Package	
	STARTING DEVICE	 ✓ 	1	120/208/240V	Base	—		
	PUMP FULL Load Amps		0	0-7 FLA	Base	H	Enclosure Rating	
			1	7 - 15 FLA	Base	Ĩ		
			2	15 - 20 FLA	\$129.00	X S	Starting Device	
	PUMP DISCONNECTS	 ✓ 	4	Circuit Breaker 120/208/240V	Base	OR		
	FLOAT SWITCH		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)	Base	Pump Full Load Amps		
			E	EZconnex® Float Switch System (select Option 33 or 35 below)	- \$102.00	PRIC	Float Switch Application	
	APPLICATION		х	No Floats	- \$102.00		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	- \$102.00		TOTAL LIST PRICE	

0.00 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
	1J	Duo Alarm Inputs	\$34.00	170	Sensor Float [®] / Internally Weighted (per Float) - Mercury	\$13.00
	3F	High Water Alarm Float (must also select Option 17)	\$34.00	17D	Sensor Float® / Externally Weighted (per Float) - Mercury	\$15.00
	3E	Only Available with Float Switch Application = C		17G	SJE MilliAmpMaster™ / Pipe Clamp (per Float) - Mechanical	\$0.00
	4D	Redundant Off Float (must also select Option 17)	\$34.00	17H	SJE MilliAmpMaster [™] / Externally Weighted (per Float) - Mechanical	\$8.00
	40	Only Available with Float Switch Application = C	\$34.00	17J	Sensor Float [®] / Pipe Clamp (per Float) - Mercury	\$6.00
1	6A	Auxiliary Alarm Contact, Form C included as standard)	\$0.00	19F	4th Float for Timer Override or Lag	\$34.00
	8AC	Display Board - Includes: ETM Counter, Events (Cycles)	\$0.00	196	Only Available with Float Switch Application = H	
1		Counter, Alarm Counter, and Override Counter (Timed Dose Only) (included as standard)		24E	C-Level [™] CL40 Sensor with 25' Vented Cable	\$380.00
(105		<u> </u>	24F	C-Level [™] CL40 Sensor with 50' Vented Cable	\$425.00
v	10E	Lockable Latch - NEMA 4X (included as standard)	\$0.00	24P	C-Level [™] CL40 Sensor with 100' Vented Cable	\$515.00
	10F	Lightning Arrestor (must also select Option 15A)	\$285.00	24X	No C-Level [™] CL40 Sensor	\$0.00
	10K	Anti-condensation Heater (must also select Option 15A)	\$124.00	29A	C-Level [™] CL100 Sensor with 25' Vented Cable	\$380.00
	11C	11C Additional NEMA 1 Remote Alarm Panel 11D Additional NEMA 4X Remote Alarm Panel 15A Control/Alarm Circuit Breaker 16A 10' Cord in Lieu of 20' Cord (per Float)		29B	C-Level [™] CL100 Sensor with 50' Vented Cable	\$425.00
	11D			29C	C-Level [™] CL100 Sensor with 100' Vented Cable	\$515.00
	15A			29X	No C-Level [™] CL100 Sensor	\$0.00
	16A			33D	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp	\$313.00
	16B	15' Cord in Lieu of 20' Cord (per Float)	- \$2.00	33E	EZconnex [®] 3-Port, 50', with 10' Floats (3) / Pipe Clamp	\$355.00
	16C	30' Cord in Lieu of 20' Cord (per Float)	\$6.00	33G	EZconnex [®] 3-Port, 25', with 20' Floats (3) / Pipe Clamp	\$337.00
	16D	40' Cord in Lieu of 20' Cord (per Float)	\$18.00	33H	EZconnex [®] 3-Port, 50', with 20' Floats (3) / Pipe Clamp	\$379.00
*C-I	evel™ Sen	sor lengths up to 300 ft. available. Call for details.	-	35D	EZconnex [®] 4-Port, 25', with 10' Floats (4) / Pipe Clamp	\$442.00
01			_	35E	EZconnex® 4-Port, 50', with 10' Floats (4) / Pipe Clamp	\$496.00
_		ο	L			,

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



\$473.00

\$526.00

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

35G 🔳

35H 📕

EZconnex® 4-Port, 25', with 20' Floats (4) / Pipe Clamp

EZconnex® 4-Port, 50', with 20' Floats (4) / Pipe Clamp