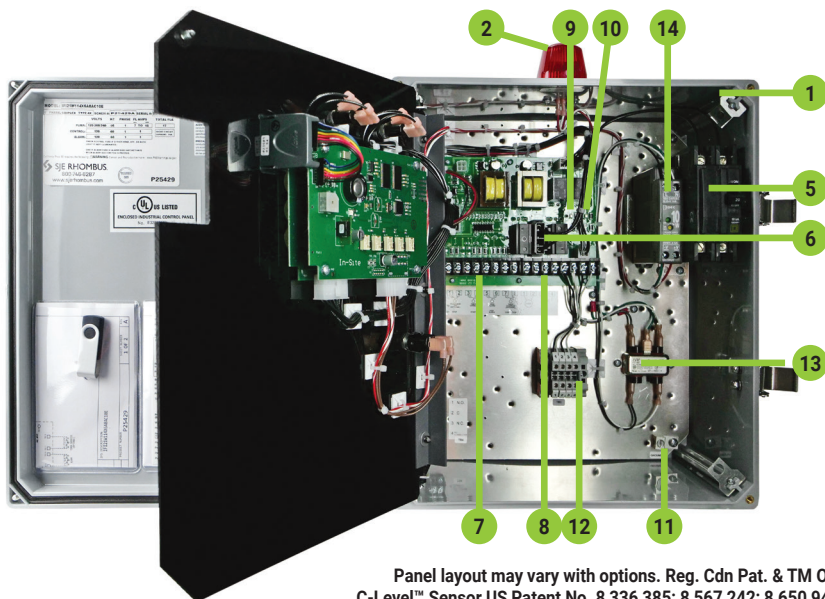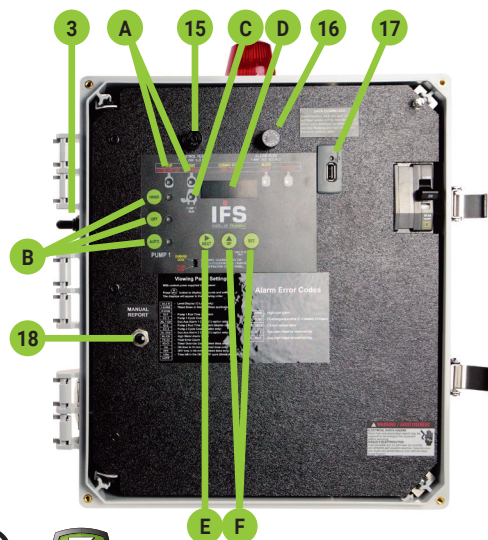# INSTALLER FRIENDLY SERIES® (IFS) IN-SITE® SINGLE PHASE SIMPLEX

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

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

Get In-Site® to your On-Site™ Systems!

The IFS In-Site® simplex control panel utilizes an innovative circuit board design to control one 120/208/240V single phase pump in water and sewage applications. IFS panels feature an easy-to-use touch pad on inner door for programming and system monitoring. Quick retrieval of all system events can be done by downloading panel information onto a USB flash drive. The panel configuration can be easily converted in the field to either a timed dose or demand dose. Available with the EZconnex® float system.

Monitor system events including pump run times, pump cycles, alarm conditions, power outages, service calls and more! Quick, convenient reports make diagnosing system conditions easy! Plug the flash drive into the USB port located on the inner door of the IFS In-Site® panel to download system events which occurred. No computer is needed at the site! Use the flash drive (included with panel) with any computer to download system information and reports. The pre-loaded software on the flash drive formulates system data for you, creating reports quickly in an easy-to-read format so system conditions can be easily identified and corrected. In addition to monitoring system events, the IFS In-Site® panel logs any service calls and changes made to system settings, which helps protect service providers.

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 with indication control pump mode; Hand mode defaults to Automatic when stop level or redundant off level is reached

C. Pump Run indicator illuminates when pump is called to run

D. LED display for system information including: level in inches or centimeters (C-Level™ sensor only), mode, pump elapsed time (hh:mm), events (cycles), alarm counter, float error count, timed dose override counter (timed dose only), pump ON/OFF times (timed dose only), and sequence ON/OFF times (timed dose only)

E. NEXT push button toggles display

F. UP and SET push buttons used to set pump ON/OFF times (timed dose only), date and hour, 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. Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating) (Not shown)

5. Circuit breaker (optional) provides pump disconnect and branch circuit protection

6. Power relay controls pump by switching electrical lines; definite purpose contactor used when pump full load amps are above 15

7. Float connection terminal block

8. Incoming control/alarm terminal block

9. Control Power indicator/fuse indicator light illuminates if control power is present in panel; alarm will activate if control fuse is blown

10. Alarm Power indicator/fuse indicator light illuminates if alarm power is present in panel

11. Ground lug

12. Incoming pump power connections

13. RF filter

14. Power supply

15. Control fuse

16. Alarm fuse

17. USB port for flash drive to download time-stamped system events

18. Manual report switch date and time stamps service calls

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.

SJE RHOMBUS®

INSTALLER FRIENDLY SERIES® IN-SITE® SINGLE PHASE SIMPLEX - Demand or timed dose float controlled system for pump control, system monitoring, event logging and reporting.

IFI		1	W					8AC
CONTROL PANEL	MODEL TYPE	ALARM PACKAGE	ENCLOSURE RATING	STARTING DEVICE	PUMP FULL LOAD AMPS	PUMP DISCONNECTS	FLOAT SWITCH APPLICATION	OPTIONS (LISTED BELOW)

CONTROL PANEL	✓	IFI	
MODEL TYPE		1	Simplex Timed Dose (includes Option 8AC as standard)
		2	Simplex Demand Dose (includes Option 8AC as standard)
ALARM PACKAGE	✓	1	Alarm Package (includes test/normal/silence switch, fuse, red light, & horn)
ENCLOSURE RATING	✓	W	Weatherproof, NEMA 4X (engineered thermoplastic)
STARTING DEVICE		1	120/208/240V
		9	120V only
PUMP FULL LOAD AMPS		0	0 - 7 FLA
		1	7 - 15 FLA
		2	15 - 20 FLA
PUMP DISCONNECTS		0	No Pump Disconnect
		4	Circuit Breaker 120V (select STARTING DEVICE Option 9 above)
			Circuit Breaker 120/208/240V (select STARTING DEVICE Option 1 above)

FLOAT SWITCH APPLICATION

H	Floats - Pump Down (select Option 17 below) Timed dose = timer enable and alarm / Demand dose = stop, start, and alarm	
E	EZconnex® Float Switch System (select Option 33, 35 or 36 below)	Timed Dose
		Demand Dose
X	No Floats	Timed Dose
		Demand Dose
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	Timed Dose
		Demand Dose

PRICING WORKSHEET

IFI Simplex Base Price _____

Alarm Package _____

Enclosure Rating _____

Starting Device _____

Pump Full Load Amps _____

Pump Disconnects _____

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
	1J	Duo Alarm Inputs
	3A	Alarm Flasher
	3B	Manual Alarm Reset
	3E	High Water Alarm Float (must also select Option 17) **Only Available with Float Switch Application = C**
	4A	Redundant Off (must also select Option 4D if floats are required) — Timed Dose / Demand Dose
	4D	Redundant Off Float (must also select Option 4A and Option 17)
	6A	Auxiliary Alarm Contact, Form C
✓	8AC	**Display Board - Includes: ETM Counter, Events (Cycles) Counter, Alarm Counter, and Override Counter (Timed Dose Only) (included as standard)**
	10E	Lockable Latch - NEMA 4X
	10F	Lightning Arrestor (select pump circuit breaker, control and alarm power combined)
	10K	Anti-condensation Heater **(must select if operating temperature is colder than 0 degrees F or -18 degrees C)**
	11C	Additional NEMA 1 Remote Alarm Panel (must also select Option 6A)
	11D	Additional NEMA 4X Remote Alarm Panel (must also select Option 6A)
	15A	Control/Alarm Circuit Breaker
	16A	10' Cord in Lieu of 20' Cord (per Float)
	16B	15' Cord in Lieu of 20' Cord (per Float)
	16C	30' Cord in Lieu of 20' Cord (per Float)
	16D	40' Cord in Lieu of 20' Cord (per Float)

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	SJE MilliAmpMaster™ / Externally Weighted (per Float) - Mechanical
17J	Sensor Float® / Pipe Clamp (per Float) - Mercury
18A	Timer Override Float (Timed Dose Float Panel Only)
24E	C-Level™ CL40 Sensor with 4' Vent Tube and 20' Cord
24F	C-Level™ CL40 Sensor with 4' Vent Tube and 40' Cord
24G	C-Level™ CL40 Sensor with 8' Vent Tube and 20' Cord
24H	C-Level™ CL40 Sensor with 8' Vent Tube and 40' Cord
24X	No C-Level™ CL40 Sensor
29A	C-Level™ CL100 Sensor with 10' Vent Tube and 20' Cord
29B	C-Level™ CL100 Sensor with 10' Vent Tube and 40' Cord
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 ■	EZconnex® 4-Port, 50', with 10' Floats (4) / Pipe Clamp
35G ■	EZconnex® 4-Port, 25', with 20' Floats (4) / Pipe Clamp
35H ■	EZconnex® 4-Port, 50', with 20' Floats (4) / Pipe Clamp
36D ■	EZconnex® 3-Port, 25', with 10' Floats (2) / Pipe Clamp, Sealing Plug
36E ■	EZconnex® 3-Port, 50', with 10' Floats (2) / Pipe Clamp, Sealing Plug
36G ■	EZconnex® 3-Port, 25', with 20' Floats (2) / Pipe Clamp, Sealing Plug
36H ■	EZconnex® 3-Port, 50', with 20' Floats (2) / Pipe Clamp, Sealing Plug

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