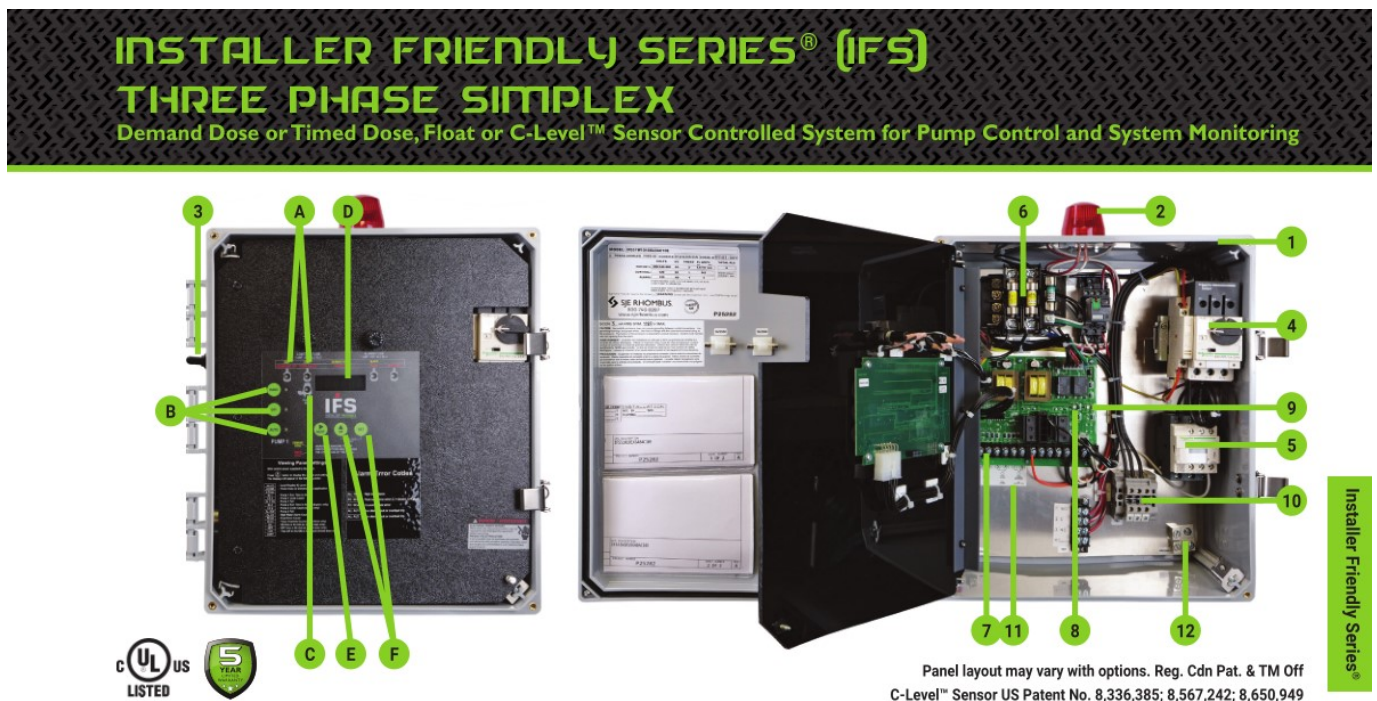# SJE RHOMBUS Installer Friendly Series Three Phase Simplex Owner's Manual

SJE RHOMBUS Installer Friendly Series Three Phase Simplex

Owner's Manual

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-LevelTM 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-LevelTM CL40 sensor operating range is 3-39.9 inches (7.6-101.3 cm). C-LevelTM 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-LevelTM 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-LevelTM 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.

SJE RHOMBUS.

www.sjerhombus.com · Toll Free 888-342-5753

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

| | **5**
PUMP FULL LOAD AMPS | | **8AC**
FLOAT SWITCH APPLICATION | 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	

		208/240/480V		600V		
PUMP FULL LOAD AMPS	001	1.0 - 1.6 FLA	005	1.0 - 1.6 FLA	Base
	101	1.6 - 2.5 FLA	105	1.6 - 2.5 FLA	Base
	201	2.5 - 4.0 FLA	205	2.5 - 4.0 FLA	Base
	301	4.0 - 6.3 FLA	305	4.0 - 6.3 FLA	Base
	401	6.0 - 10.0 FLA	405	6.0 - 10.0 FLA	Base
	511	9.0 - 14.0 FLA	515	9.0 - 14.0 FLA	$59.00
	611	13.0 - 18.0 FLA	615	13.0 - 18.0 FLA	$59.00
	621	17.0 - 23.0 FLA	625	17.0 - 23.0 FLA	$72.00
	701	20.0 - 25.0 FLA	705	20.0 - 25.0 FLA	$72.00
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
					17H	SJE MilliAmpMaster™ / Externally Weighted (per Float) - Mechanical	$8.00
	4A	Redundant Off (must also select Option 4D if floats are required)	$72.00		17J	Sensor Float® / Pipe Clamp (per Float) - Mercury	$6.00
	4D	Redundant Off Float (must also select Option 4A and Option 17)	$34.00		24E	C-Level™ CL40 Sensor with 4' Vent Tube and 20' Cord	$349.00
	5A	Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads)	$51.00		24F	C-Level™ CL40 Sensor with 4' Vent Tube and 40' Cord	$384.00
					24G	C-Level™ CL40 Sensor with 8' Vent Tube and 20' Cord	$354.00
	5E	Seal Failure Circuit and Red Indicator (2 Wire)	$198.00		24H	C-Level™ CL40 Sensor with 8' Vent Tube and 40' Cord	$390.00
	6A	Auxiliary Alarm Contact, Form C	$51.00		24X	No C-Level™ CL40 Sensor	$0.00
✓	8AC	Display Board - Includes: ETM Counter, Events (Cycles) Counter, Alarm Counter (included as standard)	$0.00		29A	C-Level™ CL100 Sensor with 10' Vent Tube and 20' Cord	$359.00
					29B	C-Level™ CL100 Sensor with 10' Vent Tube and 40' Cord	$396.00
	10E	Lockable Latch - NEMA 4X	$51.00		29X	No C-Level™ CL100 Sensor	$0.00
	10G	Lightning Arrestor	$247.00		33D ■	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp	$313.00
	10K	Anti-condensation Heater	$124.00		33E ■	EZconnex® 3-Port, 50', with 10' Floats (3) / Pipe Clamp	$355.00
	11C	Additional NEMA 1 Remote Alarm Panel (must also select Option 6A)	$114.00		33G ■	EZconnex® 3-Port, 25', with 20' Floats (3) / Pipe Clamp	$337.00
	11D	Additional NEMA 4X Remote Alarm Panel (must also select Option 6A)	$368.00		33H ■	EZconnex® 3-Port, 50', with 20' Floats (3) / Pipe Clamp	$379.00
	16A	10' Cord in Lieu of 20' Cord (per Float)	- $3.00		34D ■	EZconnex® 4-Port, 25', with 10' Floats (3) / Pipe Clamp, Sealing Plug	$400.00
	16B	15' Cord in Lieu of 20' Cord (per Float)	- $2.00		34E ■	EZconnex® 4-Port, 50', with 10' Floats (3) / Pipe Clamp, Sealing Plug	$454.00
	16C	30' Cord in Lieu of 20' Cord (per Float)	$6.00		34G ■	EZconnex® 4-Port, 25', with 20' Floats (3) / Pipe Clamp, Sealing Plug	$423.00
	16D	40' Cord in Lieu of 20' Cord (per Float)	$18.00		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

www.sjerhombus.com · email: **customer.service@sjeinc.com**

Contents

Documents / Resources

SJE RHOMBUS Installer Friendly Series Three Phase Simplex [pdf] Owner's Manual
Installer Friendly Series Three Phase Simplex, Installer Friendly Series, Three Phase Simplex,
Phase Simplex, Simplex

References

- ⚡ **Home - SJE Rhombus Control Products**