



SJE RHOMBUS Friendly Series IFS Three Phase Simplex Control Panel Instruction Manual

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Friendly Series IFS Three Phase Simplex Control Panel

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 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 Essonne® float system. 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 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-Level™ only), mode, pumps elapsed time (ham), 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-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. 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.

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

IFS	5	1	W	
CONTROL PANEL	MODEL TYPE	ALARM PACKAGE	ENCLOSURE RATING	PUMP FULL LOAD

CONTROL PANEL	✓	IFS				
MODEL TYPE	✓	5	Three Phase Simplex (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)			
PUMP FULL LOAD AMPS	208/240/480V			600V		
		001	1.0 – 1.6 FLA		005	1.0 – 1.6 FLA
		101	1.6 – 2.5 FLA		105	1.6 – 2.5 FLA
		201	2.5 – 4.0 FLA		205	2.5 – 4.0 FLA
		301	4.0 – 6.3 FLA		305	4.0 – 6.3 FLA
		401	6.0 – 10.0 FLA		405	6.0 – 10.0 FLA
		511	9.0 – 14.0 FLA		515	9.0 – 14.0 FLA
		611	13.0 – 18.0 FLA		615	13.0 – 18.0 FLA
		621	17.0 – 23.0 FLA		625	17.0 – 23.0 FLA
		701	20.0 – 25.0 FLA		705	20.0 – 25.0 FLA
FLOAT SWITCH APPLICATION		H	Floats – Pump Down (select Option 17 below)			
		E	Essonne® Float Switch System (select Option 33 or 34 below)			
		X	No Floats			
		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			

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.

PRICING WORK SHEET

IFS Three Phase, Simplex Base Price.....
 Alarm Package.....
 Enclosure Rating.....
 Pump Full Load Amps.....
 Float Switch Application.....
 Total Options.....
 TOTAL LIST PRICE.....

	OPTIONS	DESCRIPTION	OPTIONS	DESCRIPTION
	3A	Alarm Flasher	17C	Sensor Float® / Internally Weighted (per Float) – Mercury
	3B	Manual Alarm Reset	17D	Sensor Float® / Externally Weighted (per Float) – Mercury
	3E	High Water Alarm Float (must also select Option 17) Only Available with Float Switch Application = C	17G	SJE MilliAmpMaster™ / Pipe Clamp (per Float) – Mechanical
			17H	SJE MilliAmpMaster™ / Externally Weighted (per Float) – Mechanical
	4A	Redundant Off (must also select Option 4D if floats are required)	17J	Sensor Float® / Pipe Clamp (per Float) – Mercury
	4D	Redundant Off Float (must also select Option 4A and Option 17)	24E	C-Level™ CL40 Sensor with 4' Vent Tube and 20' Cord
	5A	Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads)	24F	C-Level™ CL40 Sensor with 4' Vent Tube and 40' Cord
			24G	C-Level™ CL40 Sensor with 8' Vent Tube and 20' Cord
	5E	Seal Failure Circuit and Red Indicator (2 Wire)	24H	C-Level™ CL40 Sensor with 8' Vent Tube and 40' Cord
	6A	Auxiliary Alarm Contact, Form C	24X	No C-Level™ CL40 Sensor
✓	8AC	Display Board – Includes: ETM Counter, Events (Cycles) Counter, Alarm Counter (included as standard)	29A	C-Level™ CL100 Sensor with 10' Vent Tube and 20' Cord
			29B	C-Level™ CL100 Sensor with 10' Vent Tube and 40' Cord
	10E	Lockable Latch – NEMA 4X	29X	No C-Level™ CL100 Sensor

10G	Lightning Arrestor	33D ■	Essonne® 3-Port, 25', with 10' Flo ats (3) / Pipe Clamp
10K	Anti-condensation Heater	33E ■	Essonne® 3-Port, 50', with 10' Flo ats (3) / Pipe Clamp
11C	Additional NEMA 1 Remote Alarm Panel (must also select Option 6A)	33G ■	Essonne® 3-Port, 25', with 20' Flo ats (3) / Pipe Clamp
11D	Additional NEMA 4X Remote Alarm P anel (must also select Option 6A)	33H ■	Essonne® 3-Port, 50', with 20' Flo ats (3) / Pipe Clamp
16A	10' Cord in Lieu of 20' Cord (per Float)	34D ■	Essonne® 4-Port, 25', with 10' Flo ats (3) / Pipe Clamp, Sealing Plug
16B	15' Cord in Lieu of 20' Cord (per Float)	34E ■	Essonne® 4-Port, 50', with 10' Flo ats (3) / Pipe Clamp, Sealing Plug
16C	30' Cord in Lieu of 20' Cord (per Float)	34G ■	Essonne® 4-Port, 25', with 20' Flo ats (3) / Pipe Clamp, Sealing Plug
16D	40' Cord in Lieu of 20' Cord (per Float)	34H ■	Essonne® 4-Port, 50', with 20' Flo ats (3) / Pipe Clamp, Sealing Plug

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



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SEE PRICE BOOK FOR PRICING

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Documents / Resources

	<p>SJE RHOMBUS Friendly Series IFS Three Phase Simplex Control Panel [pdf] Instruction M anual Friendly Series IFS Three Phase Simplex Control Panel, IFS Three Phase Simplex Control Pan el, Three Phase Simplex Control Panel, Simplex Control Panel</p>
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References

- [🏠 Home - SJE Rhombus Control Products](#)

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