

INSTALLER FRIENDLY SERIES® - IFS Single Phase Duplex Capacitor (Start/Run)

Single phase, duplex demand dose, float or C-Level™ controlled system for pump control and system monitoring.

The IFS single phase duplex capacitor (start/run) control panel is designed to alternately control two 120, 208, or 240 VAC single phase pumps in water and sewage installations. The alternating action equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail.

The IFS single phase duplex capacitor (start/run) control panel features a simple, easy-to-use touch pad on the inner door for programming and monitoring pump and float operation.

The optional C-Level™ sensor is a pressure transducer that senses the liquid level in the tank and sends a signal to the IFS 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 Indicators** will illuminate when pumps are called to run.
- D. Lead/Lag Selector** toggles pump operation (alternate 1-2 and 2-1).
- E. LED Display** shows system information including: level in inches or centimeters (C-Level™ 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).
- F. NEXT Push Button** toggles display.
- G. UP and SET Push Buttons** set pump ON/OFF times (timed dose only) and activation levels (C-Level™ only).

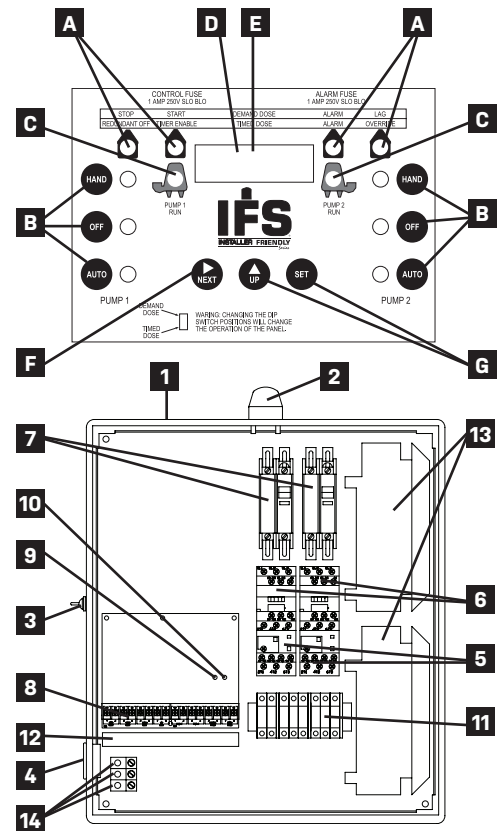
PANEL COMPONENTS

- 1. Enclosure** base measures 18 X 16 X 8 inches (45.72 X 40.64 X 20.32 cm). NEMA 4X fiberglass. **Note:** Options, voltage, and amp range selected may change enclosure size and component layout.
- 2. Red Alarm 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).
- 5. Overload Relays** (optional) provide pump overload protection.
- 6. IEC Motor Contactors** control pumps by switching electrical lines.
- 7. Circuit Breakers** (optional) provide pump disconnect and branch circuit protection.
- 8. Float and Control/Alarm Incoming Power Terminal Block**
- 9. Control Power Indicator/Fuse** indicator light illuminates if control power is present in panel. Alarm activates if control fuse is blown.
- 10. Alarm Power Indicator/Fuse** indicator light illuminates if alarm power is present in panel.
- 11. Large Pump/Incoming Power Terminal Block**
- 12. Terminal Block Float and Control/Alarm Incoming Power Wiring Label**
- 13. Cap Kits**
- 14. Ground Lugs**

NOTE: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel on enclosure cover.

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

SEE REVERSE SIDE FOR ORDERING INFORMATION.



Model Shown IFS81W114X912A8AC

Reg. Cdn Pat. & TM Off

C-Level™ Sensor US Patent No. 8,336,385; 8,567,242; 8,650,949

FEATURES

- Entire control system is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' control switches
- Available with EZconnex® float system
- Complete with step-by-step installation instructions
- Five-year limited warranty. This express warranty does not apply to the motor start kit components. SJE Rhombus will warranty motor start kit components supplied by SJE Rhombus for one year. SJE Rhombus makes no warranties of any type with respect to motor start kits supplied by a customer.



SJE RHOMBUS

1-888-DIAL-SJE • 1-218-847-1317

1-218-847-4617 Fax

email: customer.service@sjeinc.com

www.sjerhombus.com

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IFS8 W 1 \$2,050.00

MODEL IFS8

- ALARM PACKAGE**
1 = alarm package (includes test/normal/silence switch, fuse, red light, horn)..... Base
- ENCLOSURE RATING**
W = Weatherproof, NEMA 4X (engineered thermoplastic)..... Base
- STARTING DEVICE**
1 = IEC motor contactor 120/208/240V..... Base
- PUMP FULL LOAD AMPS**
 - 0 = 0-7 FLA..... Base
 - 1 = 7-15 FLA..... Base
 - 2 = 15-20 FLA..... \$111.00
 - 3 = 20-30 FLA..... \$133.00
 - 4 = 30-40 FLA..... \$159.00
- PUMP DISCONNECTS**
 - 0 = no pump disconnect..... Base
 - 4 = circuit breaker..... \$148.00
- FLOAT SWITCH APPLICATION**
 - H or L = pump down or pump up (select 17 option)..... Base
 - E = Ezconnex® float switch system (select 34 or 35 option).....-\$81.00
 - X = no floats.....-\$81.00
 - C = C-Level™ sensor (must select 24 or 29 option)-\$81.00
(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.

OPTIONS Listed below

Start/run capacitor kits must be ordered separately (see option 12 below or call factory).

Total Options _____

ENCLOSURE UPSIZE - If one or more of the options are selected, add a one-time **\$138.00** list enclosure upsize

Enclosure Upsize _____
TOTAL LIST PRICE _____

CODE	DESCRIPTION	LIST PRICE	CODE	DESCRIPTION	LIST PRICE
<input type="checkbox"/>	3A Alarm flasher	\$53.00	<input type="checkbox"/>	16A 10' cord in lieu of 20' (per float)	\$3.00
<input type="checkbox"/>	3B Manual alarm reset	\$95.00	<input type="checkbox"/>	16B 15' cord in lieu of 20' (per float)	\$2.00
<input type="checkbox"/>	3E High water alarm float (must select 17 option)	\$27.00	<input type="checkbox"/>	16C 30' cord in lieu of 20' (per float)	\$5.00
	(Available only when Switch Applications = C)		<input type="checkbox"/>	16D 40' cord in lieu of 20' (per float)	\$15.00
<input type="checkbox"/>	4A Redundant off	\$58.00	<input type="checkbox"/>	17C Sensor Float® / internally weighted ▲ (per float)	\$9.00
	(select option 4D if floats are required)		<input type="checkbox"/>	17D Sensor Float® / externally weighted ▲ (per float)	\$11.00
<input type="checkbox"/>	4D Redundant off float	\$27.00	<input type="checkbox"/>	17G SJE MilliAmpMaster™/ pipe clamp ● (per float)	\$0.00
	(must select 4A option) (must select 17 option)		<input type="checkbox"/>	17H SJE MilliAmpMaster™/ externally weighted ● (per float)	\$7.00
<input type="checkbox"/>	5A Thermal cutout/heat sensor auto reset	\$84.00	<input type="checkbox"/>	17J Sensor Float® / pipe clamp ▲ (per float)	\$4.00
	(for pumps w/thermal switch leads)		<input type="checkbox"/>	19F Fourth float to separate alarm function from lag	\$27.00
<input type="checkbox"/>	5E Seal failure circuit & red indicator (2 wire).....	\$334.00	<input type="checkbox"/>	24E C-Level™ CL40 sensor with 4' vent tube & 20' cord.....	\$297.00
<input type="checkbox"/>	6A Auxiliary alarm contacts, Form C	\$42.00	<input type="checkbox"/>	24F C-Level™ CL40 sensor with 4' vent tube and 40' cord	\$329.00
<input checked="" type="checkbox"/>	8AC Display board includes: ETM counter, events (cycles) counter, alarm counter and lead/lag selector switch.(Included as standard)	\$0.00	<input type="checkbox"/>	24G C-Level™ CL40 sensor with 8' vent tube and 20' cord..	\$302.00
<input type="checkbox"/>	9_A Pump overload specify amperage after number 9 followed by letter "A". Example: 912A = 12 amp pump.		<input type="checkbox"/>	24H C-Level™ CL40 sensor with 8' vent tube and 40' cord...	\$334.00
<input type="checkbox"/>	0-30 FLA.....	\$128.00	<input type="checkbox"/>	24X No C-Level™ CL40 sensor.....	\$0.00
<input type="checkbox"/>	30-100 FLA	\$212.00	<input type="checkbox"/>	29A C-Level™ CL100 sensor w/10' vent tube & 20' cord.....	\$307.00
<input type="checkbox"/>	10E Lockable latch - NEMA 4X.....	\$42.00	<input type="checkbox"/>	29B C-Level™ CL100 sensor w/10' vent tube & 40' cord.....	\$339.00
<input type="checkbox"/>	10F Lightning arrestor (must select pump circuit breakers, control and alarm power combined)	\$244.00	<input type="checkbox"/>	29X No C-Level™ CL100 sensor.....	\$0.00
<input type="checkbox"/>	10K Anti-condensation heater	\$106.00	<input type="checkbox"/>	34D EZconnex® 4-Port, 25', w/10' floats (3) /pipe clamp, sealing plug *.....	\$343.00
<input type="checkbox"/>	11C NEMA 1 remote alarm panel (must select option 6A)	\$95.00	<input type="checkbox"/>	34E EZconnex® 4-Port, 50', w/10' floats (3) /pipe clamp, sealing plug *.....	\$388.00
<input type="checkbox"/>	11D NEMA 4X remote alarm panel (must select option 6A)	\$315.00	<input type="checkbox"/>	34G EZconnex® 4-Port, 25', w/20' floats (3) /pipe clamp, sealing plug *.....	\$362.00
<input type="checkbox"/>	12B Customer supplied motor start components, mounted in enclosure by SJE Rhombus	\$117.00	<input type="checkbox"/>	34H EZconnex® 4-Port, 50', w/20' floats (3) /pipe clamp, sealing plug *.....	\$407.00
<input type="checkbox"/>	12C Motor start component, mounted and supplied by SJE Rhombus	Call Factory	<input type="checkbox"/>	35D EZconnex® 4-Port, 25', w/10' floats (4) /pipe clamp *.....	\$379.00
			<input type="checkbox"/>	35E EZconnex® 4-Port, 50', w/10' floats (4) /pipe clamp *.....	\$424.00
			<input type="checkbox"/>	35G EZconnex® 4-Port, 25', w/20' floats (4) /pipe clamp *.....	\$405.00
			<input type="checkbox"/>	35H EZconnex® 4-Port, 50', w/20' floats (4) /pipe clamp *.....	\$450.00

● Mechanically-activated ▲ Mercury-activated
* EZconnex® mechanically-activated, narrow angle float switches with quick release connections.