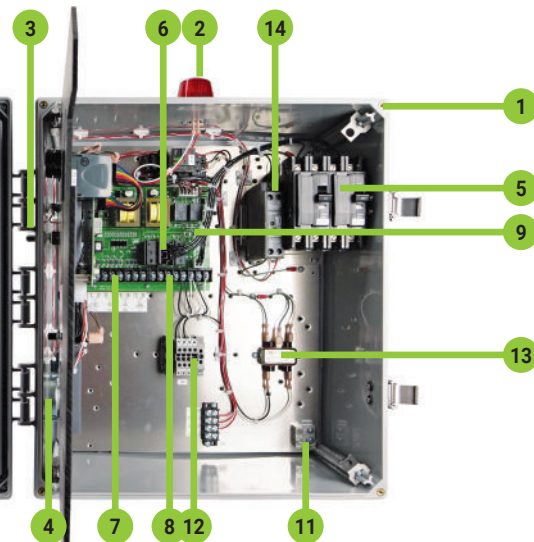
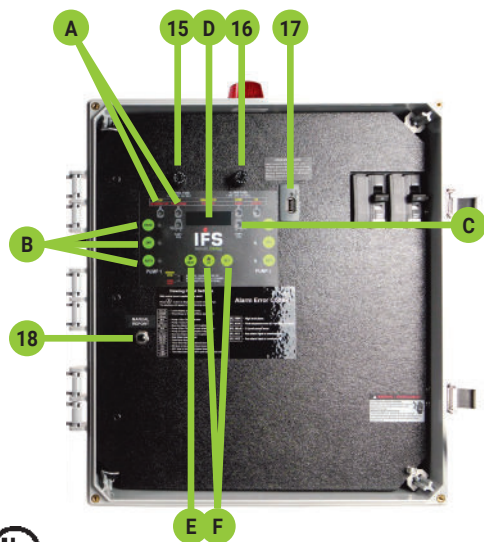


INSTALLER FRIENDLY SERIES® (IFS) IN-SITE® SINGLE PHASE DUPLEX

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



The IFS In-Site® duplex control panel utilizes an innovative circuit board design to control two alternating 120/208/240V single phase pumps in water and sewage applications. IFS panels feature an easy-to-use touch pad on inner door for programming and system monitoring. The alternating action equalizes pump wear. In addition, this system provides override control should either pump fail. 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).

- Five-year limited warranty on panel
- Two-year limited warranty on C-Level™ Sensor

TOUCH PAD FEATURES

- Level Status indicators illuminate when floats or set points are activated; alarm will activate if a float operates out of sequence
- HOA (Hand-Off-Automatic) buttons with indication control pump mode; Hand mode defaults to Automatic when stop level or redundant off level is reached
- Pump Run indicators will illuminate when pumps are called to run
- LED display for 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), pump ON/OFF times (timed dose only), and sequence ON/OFF times (timed dose only)
- NEXT push button toggles display
- UP and SET Push Buttons used to set pump ON/OFF times (timed dose only), pump operation (alternate 1-2 and 2-1), date and hour, activation levels (C-Level™ only)



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

COMPONENTS

- Enclosure base measures 16 x 14 x 6 inches (40.64 x 35.56 x 15.24 cm); NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use)
- Red LED beacon provides 360° visual check of alarm condition
- 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
- Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating)
- Circuit breakers (optional) provide pump disconnect and branch circuit protection
- Power relays control pump by switching electrical lines; definite purpose contactors used when pump full load amps are above 15
- Float connection terminal block
- Incoming Control/Alarm Terminal Block
- Control Power indicator/fuse indicator light illuminates if control power is present in panel; alarm activates if control fuse is blown
- Alarm Power indicator/fuse indicator light illuminates if alarm power is present in panel (Not shown)
- Ground lugs
- Incoming pump power connections
- RF filter
- Power supply
- Control fuse
- Alarm fuse
- USB port for flash drive to download time-stamped system events
- 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.

Installer Friendly Series®

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

IFI CONTROL PANEL	MODEL TYPE	1 ALARM PACKAGE	W ENCLOSURE RATING	STARTING DEVICE	PUMP FULL LOAD AMPS	PUMP DISCONNECTS	FLOAT SWITCH APPLICATION	8AC OPTIONS (LISTED BELOW)
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CONTROL PANEL	✓	IFI	
MODEL TYPE		3	Duplex Timed Dose (includes Option 8AC as standard)
		4	Duplex 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(s) 120V (select STARTING DEVICE Option 9 above)
			Circuit Breaker(s) 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 34 or 35 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 Duplex 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, Override Counter (Timed Dose Only), and Lead/Lag Selector (Demand Dose Only) (included as standard)
10E	Lockable Latch - NEMA 4X
10F	Lightning Arrestor (select pump circuit breakers, 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)
19F	Fourth Float to Separate Alarm Function from Lag (Demand Dose Float Panel Only)
24E	C-Level™ CL40 Sensor with 25' Vented Cable
24F	C-Level™ CL40 Sensor with 50' Vented Cable
24P	C-Level™ CL40 Sensor with 100' Vented Cable
24X	No C-Level™ CL40 Sensor
29A	C-Level™ CL100 Sensor with 25' Vented Cable
29B	C-Level™ CL100 Sensor with 50' Vented Cable
29C	C-Level™ CL100 Sensor with 100' Vented Cable
29X	No C-Level™ CL100 Sensor
34D	■ EZconnex® 4-Port, 25', with 10' Floats (3) / Pipe Clamp, Sealing Plug
34E	■ EZconnex® 4-Port, 50', with 10' Floats (3) / Pipe Clamp, Sealing Plug
34G	■ EZconnex® 4-Port, 25', with 20' Floats (3) / Pipe Clamp, Sealing Plug
34H	■ EZconnex® 4-Port, 50', with 20' Floats (3) / Pipe Clamp, Sealing Plug
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

*C-Level™ Sensor lengths up to 300 ft. available. Call for details.

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

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