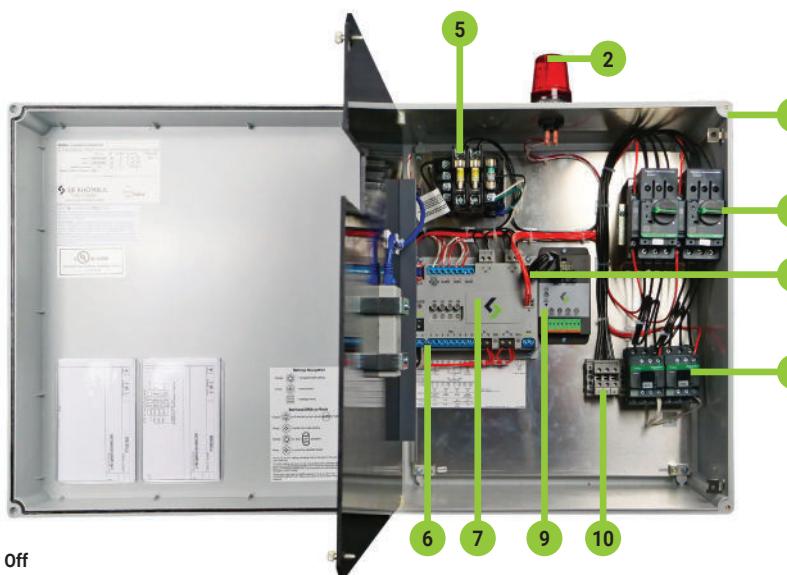




Panel layout may vary with options. Reg. Cdn Pat. & TM Off
US Patent No. 8,336,385; 8,567,242; 8,650,949



The Next Generation IFS duplex control panel utilizes an innovative circuit board design enclosed in a touch-safe housing to control two 208/240/480 and 600 VAC three phase pumps in water and sewage applications. These newly redesigned IFS panels feature an easy-to-use color LCD interface located on the 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 through the LCD interface.

The panel can easily be changed in the field to utilize floats, Sub-X™ LT Transmitter or the C-Level™ Sensor for continuous level monitoring. The Sub-X™ LT Transmitter and the C-Level™ Sensor sense the level in the tank and sends a signal to the panel. Pump activation levels can be adjusted by using the LCD interface.

- Five-year limited warranty on panel
- Two-year limited warranty on C-Level™ Sensor and Sub-X™ LT Transmitter

LCD INTERFACE FEATURES

- Full color graphics and menu navigation encoder for easy setup
- Touch safe housing
- Pump Hand/Off/Auto Control selectable via menu navigation
- Sub-X™ LT Transmitter, C-Level™ Sensor or float operation selectable
- Demand or Timed Dose operation selectable via menu navigation
- Tank Level Indication and setpoint monitoring at-a-glance
- Lead pump is easily identified by a graphic ring around the current lead pump regardless of control mode (timed dose or demand)
- Displays remaining time in Timed Dose mode
- RJ45 communication connector
- Flashing function for alarm beacon and horn (configurable)
- Manual alarm reset (configurable)
- Thermal cutout and seal failure module (optional)

COMPONENTS

1. Enclosure base measures 16 x 14 x 6 inches (40.64 x 35.56 x 15.24 cm); NEMA 4X (ultraviolet stabilized thermoplastic)
2. Red Alarm Beacon provides 360° visual check of alarm condition
3. Motor protective switches provide adjustable overload, branch circuit protection and pump disconnect
4. IEC motor contactors control pumps by switching electrical lines
5. Multi-tap transformer (208/240/480 VAC primary) provides 120 VAC control alarm voltage or 600 VAC primary transformer
6. Sub-X™ LT Transmitter, C-Level™ Sensor and float connection terminal blocks
7. Controller Features:
 - a. Incoming Control/Alarm Power terminal blocks
 - b. Control/Alarm Power/System Status green LED indicators illuminate if control/alarm power is present and controller is operating*
 - c. Controller status green LED indicators for: Power/Active, Float Input Status, Pump Run, C-Level Active*
 - d. Normally open auxiliary alarm contacts included as standard
 - e. Control Power On/Off switch
 - f. Green LED Pump Run indicators illuminate when pump is called to run*
 - g. Control panel able to operate if LCD interface fails or is disconnected
 - h. Touch safe housing
8. Modbus Port (RJ45) for future expansion - eg. remote monitoring, valve control, In-Site®, logging, etc.
9. Option 5AE - Thermal Cutout/Heat Sensor & Seal Failure Module
10. Large incoming power connection terminal block
11. Alarm Horn provides audible warning of alarm condition (Not shown)
12. Exterior Alarm Test/Silence push button allows horn and light to be tested and horn to be silenced in an alarm condition; alarm automatically resets once alarm condition is cleared (Not shown)

*In fault condition, LED indicators will be red.

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.



IFN	6	1	W	PUMP FULL LOAD AMPS	LEVEL CONTROL APPLICATION	6A8AC10E
CONTROL PANEL	MODEL TYPE	ALARM PACKAGE	ENCLOSURE RATING			OPTIONS (LISTED BELOW)
✓ IFN						
✓ 6	Three Phase Duplex (includes Option 6A, 8AC and 10E as standard)					
✓ 1	Alarm Package (includes test/silence switch, red light, & horn)					
✓ W	Weatherproof, NEMA 4X (engineered thermoplastic)					
	208/240/480V		600V			
	001 1.0 - 1.6 FLA		005 1.0 - 1.6 FLA			IFS Three Phase Duplex Base Price _____
	101 1.6 - 2.5 FLA		105 1.6 - 2.5 FLA			Alarm Package _____
	201 2.5 - 4.0 FLA		205 2.5 - 4.0 FLA			Enclosure Rating _____
	301 4.0 - 6.3 FLA		305 4.0 - 6.3 FLA			Pump Full Load Amps _____
	401 6.0 - 10.0 FLA		405 6.0 - 10.0 FLA			Level Control Application _____
	511 9.0 - 14.0 FLA		515 9.0 - 14.0 FLA			Total Options _____
	611 13.0 - 18.0 FLA		615 13.0 - 18.0 FLA			TOTAL LIST PRICE _____
	621 17.0 - 23.0 FLA		625 17.0 - 23.0 FLA			
	701 20.0 - 25.0 FLA		705 20.0 - 25.0 FLA			
	H	Floats - Pump Down (select Option 17 below) Timed dose = redundant off, timer enable, alarm / Demand dose = stop, start, alarm (all systems will ship with 3 floats by default)				
	E	EZconnex® Float Switch System				
	X	No Floats, Transmitter or Sensor				
	C	C-Level™ Sensor (select Option 24 or 29)* Select Option 3E and/or 4D for high water alarm and/or redundant off floats				
	T	Sub-X™ LT Transmitter (select Option 31).* Select Option 3E and/or 4D for high water alarm and/or redundant off floats.				

***NOTE:** When using the Sub-X™ LT Transmitter or C-Level™ Sensor: Operation is for 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	DESCRIPTION
3E	High Water Alarm Float (must also select Option 17)** Only Available with Level Control Application = C or T
4D	Redundant Off Float (must also select Option 17)** Only Available with Level Control Application = C or T
5AE	Thermal Cutout/Heat Sensor & Seal Failure Circuit (2 wire)
✓ 6A	Auxiliary Alarm Contact, Form A (included as standard)
✓ 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 (included as standard)
10G	Lightning Arrestor
10K	Anti-condensation Heater
16C	30' Cord in Lieu of 20' Cord (per Float)
16D	40' Cord in Lieu of 20' Cord (per Float)
16E	50' Cord in Lieu of 20' Cord (per Float)
16G	100' Cord in Lieu of 20 Cord (per Float)
17C	Sensor Float® / Internally Weighted (3 Floats) - Mercury**
17D	Sensor Float® / Externally Weighted (3 Floats) - Mercury**

OPTIONS	DESCRIPTION
17G	SJE MilliAmpMaster™ / Pipe Clamp (3 Floats) - Mechanical**
17H	SJE MilliAmpMaster™ / Externally Weighted (3 Floats) - Mechanical**
17J	Sensor Float® / Pipe Clamp (3 Floats) - Mercury**
19F	4th Float for Timer Override Only Available with Level Control Application = H
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
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
31A	Sub-X™ LT Transmitter 25' (4-20mA)
31B	Sub-X™ LT Transmitter 50' (4-20mA)
31C	Sub-X™ LT Transmitter 100' (4-20mA)
33D	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp
35D	EZconnex® 4-Port, 25', with 10' Floats (4) / Pipe Clamp

**For 3E and 4D options, there is no charge when selecting any of the 17 options.

For additional level control and control panel options, please contact Technical Support at techsupport@sieinc.com.

Note: Added options, voltage, and amp range selected may change enclosure size and enclosure features, and component layout. Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.

SENSOR/TRANSMITTER	OPERATING RANGE
C-Level™ CL40	0-39.9 inWC
C-Level™ CL100	0-99.9 inWC
Sub-X™ LT Transmitter (4-20mA)	0-100 inWC