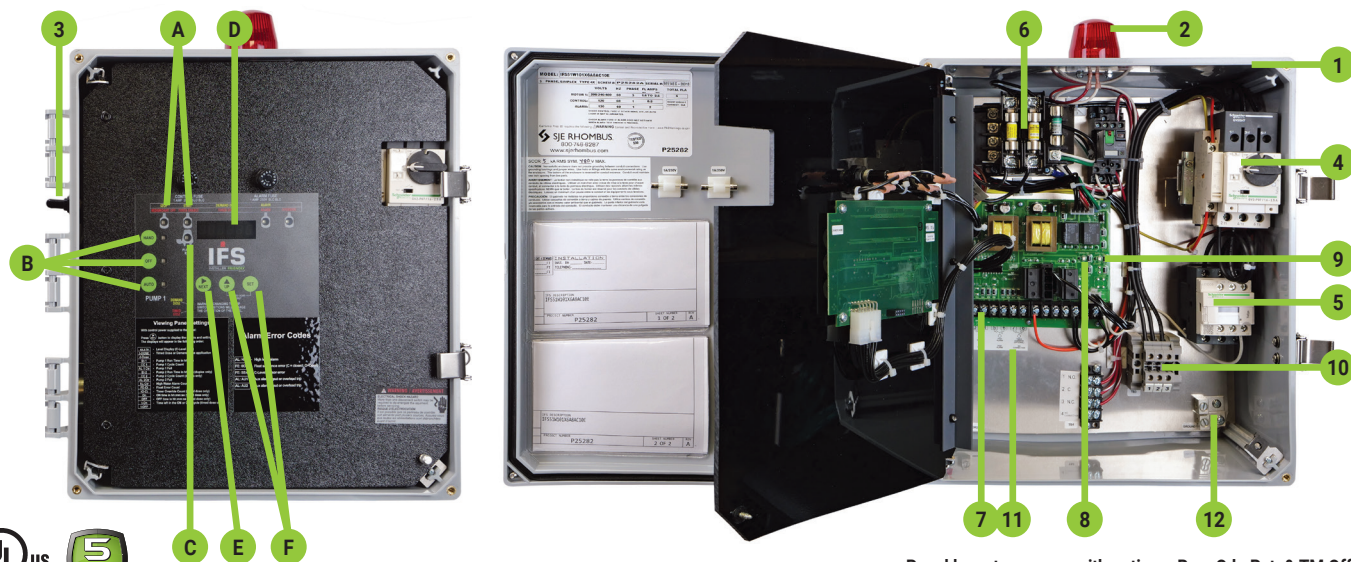


INSTALLER FRIENDLY SERIES® (IFS)

THREE PHASE SIMPLEX

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



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 EZconnex® 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 (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-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 CONTROL PANEL | 5 MODEL TYPE | 1 ALARM PACKAGE | W ENCLOSURE RATING | PUMP FULL LOAD AMPS | FLOAT SWITCH APPLICATION | 8AC OPTIONS (LISTED BELOW) |
|-----------------------------|------------------------|---------------------------|------------------------------|----------------------------|---------------------------------|--------------------------------------|

| | | | |
|---------------------------------|--------------|---|--|
| 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 |
| | 701 | 20.0 - 25.0 FLA | 705 20.0 - 25.0 FLA |
| FLOAT SWITCH APPLICATION | H | Floats - Pump Down (select Option 17 below) | |
| | E | EZconnex® 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 | |

| | | |
|--------------------------|---|-------|
| PRICING WORKSHEET | IFS Three Phase Simplex Base Price | _____ |
| | 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 |
|---------|--|
| 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) |
| 4D | Redundant Off Float (must also select Option 4A and Option 17) |
| 5A | Thermal Cutout/Heat Sensor Auto Reset (for pumps with thermal switch leads) |
| 5E | Seal Failure Circuit and Red Indicator (2 Wire) |
| 6A | Auxiliary Alarm Contact, Form C |
| ✓ 8AC | Display Board - Includes: ETM Counter, Events (Cycles) Counter, Alarm Counter (included as standard) |
| 10E | Lockable Latch - NEMA 4X |
| 10G | Lightning Arrestor |
| 10K | Anti-condensation Heater |
| 11C | Additional NEMA 1 Remote Alarm Panel (must also select Option 6A) |
| 11D | Additional NEMA 4X Remote Alarm Panel (must also select Option 6A) |
| 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 |
| 24E | C-Level™ CL40 Sensor with 4' Vent Tube and 20' Cord |
| 24F | C-Level™ CL40 Sensor with 4' Vent Tube and 40' Cord |
| 24G | C-Level™ CL40 Sensor with 8' Vent Tube and 20' Cord |
| 24H | C-Level™ CL40 Sensor with 8' Vent Tube and 40' Cord |
| 24X | No C-Level™ CL40 Sensor |
| 29A | C-Level™ CL100 Sensor with 10' Vent Tube and 20' Cord |
| 29B | C-Level™ CL100 Sensor with 10' Vent Tube and 40' Cord |
| 29X | No C-Level™ CL100 Sensor |
| 33D ■ | EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp |
| 33E ■ | EZconnex® 3-Port, 50', with 10' Floats (3) / Pipe Clamp |
| 33G ■ | EZconnex® 3-Port, 25', with 20' Floats (3) / Pipe Clamp |
| 33H ■ | EZconnex® 3-Port, 50', with 20' Floats (3) / Pipe Clamp |
| 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 |

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