

INSTALLER FRIENDLY SERIES® - IFS Single Phase Simplex (Demand/TD)

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

The IFS simplex control panel is designed to control one 120, 208, 240 VAC single phase pump in water and sewage installations. The panel features an easy-to-use touch pad with display 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.

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 Indicator** illuminates when pump is called to run.
- D. **LED Display** shows system information including: level in inches or centimeters (C-Level™ only), mode, pump 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) or activation levels (C-Level™ only).

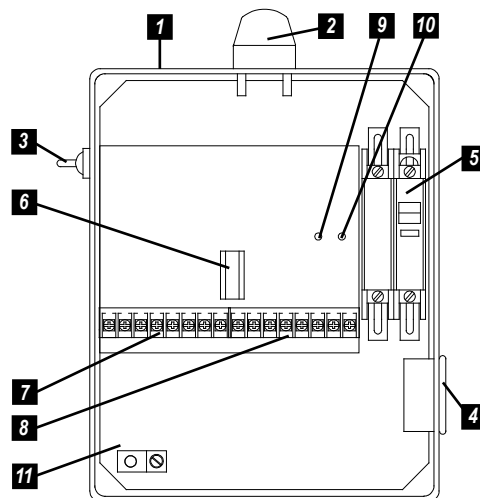
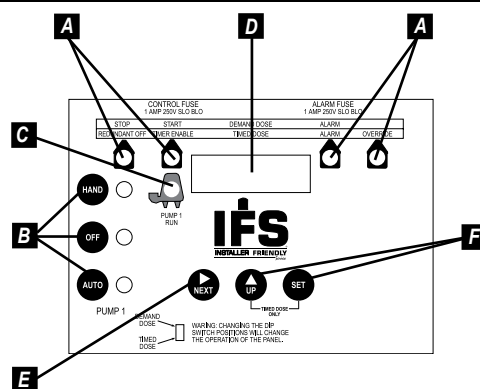
PANEL COMPONENTS

1. **Enclosure** base measures 10 X 8 X 4 inches (25.4 X 20.32 X 10.16 cm). NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use). **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. **Circuit Breaker** (optional) provides pump disconnect and branch circuit protection.
6. **Power Relay** controls pump by switching electrical lines. Definite purpose contactor used when pump full load amps are above 15.
7. **Float Connection Terminal Block**
8. **Incoming Control/Alarm Power & Pump Terminal Block**
9. **Control Power Indicator/Fuse** indicator light illuminates if control power is present in panel. Alarm will activate if control fuse is blown.
10. **Alarm Power Indicator/Fuse** indicator light illuminates if alarm power is present in panel.
11. **Ground Lug**

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

OPTIONAL FEATURE

- **34" (86.36cm) Panel Mounting Post** (Factory Installed). Includes Duplex Installation Kit (Enclosure upsized to 10" x 8" x 6" (25.4 x 20.32 x 15.24 cm). Max. Enclosure size 14" x 12" x 6" (35.56 x 30.48 x 15.24 cm)



Model Shown IFS11W114X8AC

Reg. Cdn Pat. & TM Off
C-Level™ Sensor US Patent 8,336,385. Other patents pending.

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:
Demand Dose - three 20' SJE MilliAmpMaster™ control switches
Timed Dose - two 20' SJE MilliAmpMaster™ control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty



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IFS

1

W

8AC

MODEL IFS**MODEL TYPE**

1 = SPLX TIMED DOSE (includes option 8AC standard)

2 = SPLX DEMAND DOSE (includes option 8AC standard)

ALARM PACKAGE

1 = alarm package (includes test/normal/silence switch, fuse, red light & horn)

ENCLOSURE RATING

W = NEMA 4X

STARTING DEVICE

1 = 120/208/240 VAC

9 = 120 VAC

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

120 VAC (must select starting device option 9)

120/208/240 VAC (must select starting device option 1)

SWITCH APPLICATIONS

H = floats (Timed dose = timer enable and alarm / Demand dose = stop, start, and alarm) (select 17 option)

X = no floats

timed dose

demand dose

C = C-Level™ sensor (must select 24 or 29 option)

(select option 3E and/or 4A & 4D for high water alarm and/or redundant off floats)

timed dose

demand dose

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**CODE DESCRIPTION**

1J Duo alarm inputs

3A Alarm flasher

3B Manual alarm reset

3E High water alarm float (must select 17 option)

(Available only when Switch Applications = C)

4A Redundant off (select option 4D if floats are required)

Demand Dose

Timed Dose

4D Redundant off float

(must select 4A option) (must select 17 option)

6A Auxiliary alarm contacts, form C

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

10F Lightning arrestor (must select pump circuit breaker, control and alarm power combined)

10K Anti-condensation heater

10P Panel Mounting Post (Factory Installed. Includes Duplex Install. Kit)(Enclosure upsized to 10"x8"x6". Max 14"x12"x6")

11C NEMA 1 alarm panel (must select option 6A)

CODE DESCRIPTION

11D NEMA 4X alarm panel

(must select option 6A)

15A Control / Alarm circuit breaker

16A 10' cord in lieu of 20' (per float)

16B 15' cord in lieu of 20' (per float)

16C 30' cord in lieu of 20' (per float)

16D 40' cord in lieu of 20' (per float)

17C Sensor Float® / internally weighted ▲ (per float)

17D Sensor Float® / externally weighted ▲ (per float)

17G MilliAmpMaster™ / pipe clamp ● (per float)

17H MilliAmpMaster™ / externally weighted ● (per float)

17J Sensor Float® / pipe clamp ▲ (per float)

18A Timer override float

(timed dose float panel only)

24E C-Level™ CL40 sensor with 4' vent tube & 20' cord

24F C-Level™ CL40 sensor with 4' vent tube & 40' cord

24G C-Level™ CL40 sensor with 8' vent tube & 20' cord

24H C-Level™ CL40 sensor with 8' vent tube & 40' cord

24X No C-Level™ CL40 sensor

29A C-Level™ CL100 sensor w/10' vent tube & 20' cord

29B C-Level™ CL100 sensor w/10' vent tube & 40' cord

29X No C-Level™ CL100 sensor

● Mechanically-activated

▲ Mercury-activated

If additional features are required, call the factory for a quote on an Engineered Custom control panel.**SAMPLE****MODEL**

IFS

1

1

W

9

1

4

H

8AC 10E17G

Model Type**Alarm Package****Enclosure Rating****Starting Device****Pump Full Load Amps****Pump Disconnects****Switch Application****Options: Display, Lockable Latch,****SJE MilliAmpMaster™/pipe clamp**