

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

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

The IFS duplex control panel is designed to control two (alternating) 120, 208, 240 VAC single phase pumps 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 alternating action equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail.

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).

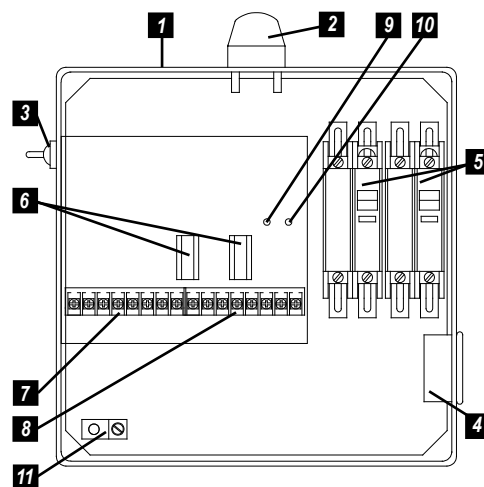
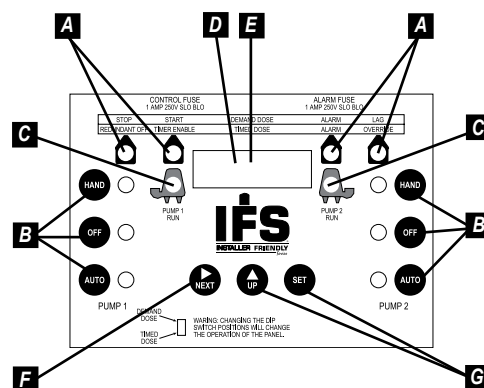
TOUCH PAD FEATURES

- 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 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 10 X 10 X 6 inches (25.4 X 25.4 X 15.24 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 Breakers** (optional) provide pump disconnect and branch circuit protection.
6. **Power Relays** control pump by switching electrical lines. Definite purpose contactors 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 activates 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



Model Shown IFS31W114X8AC

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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SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.
SEE PRICE BOOK FOR LIST PRICE.

MODEL IFS**MODEL TYPE**

3 = DPLX TIMED DOSE (includes option 8AC standard)

4 = DPLX 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(s)

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 lag/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 breakers, control and alarm power combined)
- ☐ 10K Anti-condensation heater
- ☐ 11C NEMA 1 alarm panel (must select option 6A)
- ☐ 11D NEMA 4X alarm panel (must select option 6A)
- ☐ 15A Control / Alarm circuit breaker

CODE DESCRIPTION

- ☐ 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)
- ☐ 19F Fourth float to separate alarm function from lag
(demand 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**

Model Type

Alarm Package

Enclosure Rating

Starting Device

Pump Full Load Amps

Pump Disconnects

Switch Application

Options: Display, Lockable Latch,

SJE MilliAmpMaster™/pipe clamp