

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

Single phase, duplex demand dose or timed dose, float 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 IFS control 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.

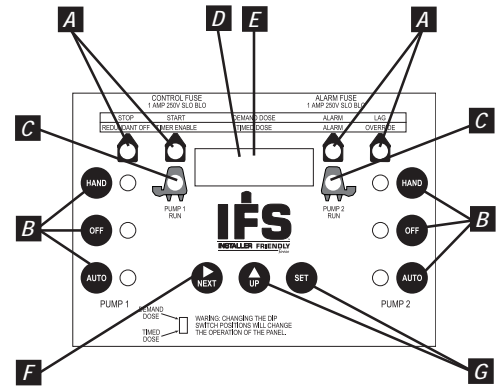
TOUCH PAD FEATURES

- A. **Float Indicators** illuminate when floats 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: 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).

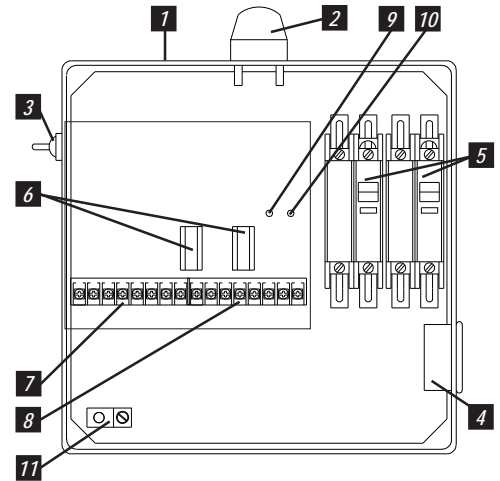
PANEL COMPONENTS

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 (Inner door view)



Model Shown IFS31W114X8AC (Inside view)

Reg. Cdn Pat. & TM Off

FEATURES

- Entire control system (panel and switches) 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



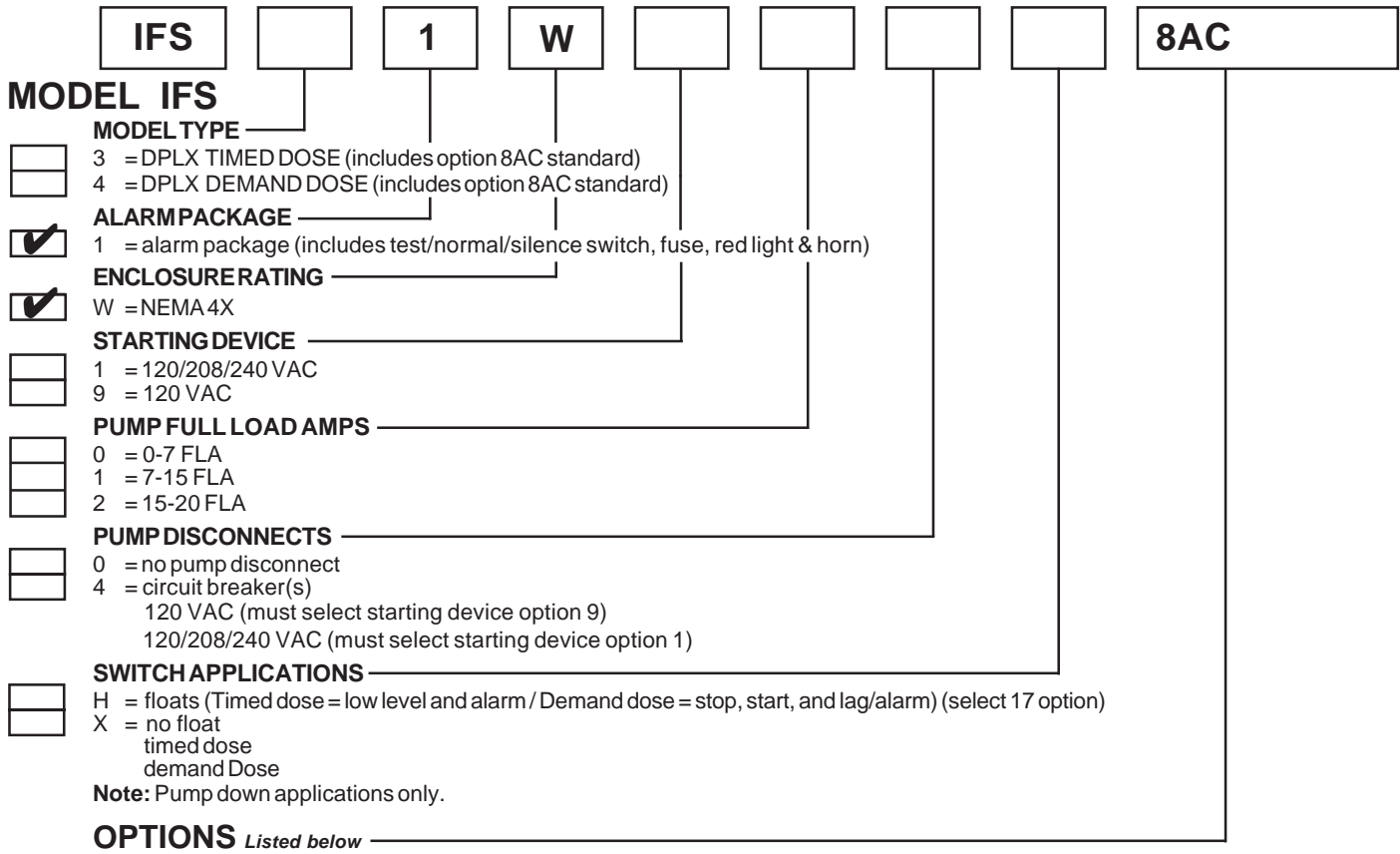
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SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.



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

- | CODE | DESCRIPTION |
|-------------------------------------|---|
| <input type="checkbox"/> | 1J Duo alarm inputs |
| <input type="checkbox"/> | 3A Alarm flasher |
| <input type="checkbox"/> | 3B Manual reset alarm |
| <input type="checkbox"/> | 4A Redundant off (select option 4D if floats are required)
Demand Dose
Timed Dose |
| <input type="checkbox"/> | 4D Redundant off float |
| <input type="checkbox"/> | 6A Auxiliary alarm contacts, form C |
| <input checked="" type="checkbox"/> | 8AC Display board includes: ETM counter, events (cycles) counter, alarm counter, and override counter (timed dose only). (Included as standard.) |
| <input type="checkbox"/> | 10E Lockable latch - NEMA 4X |
| <input type="checkbox"/> | 10F Lightning arrestor (must select pump circuit breakers, control and alarm power combined) |
| <input type="checkbox"/> | 10K Anti-condensation heater |
| <input type="checkbox"/> | 11C NEMA 1 remote alarm panel
(must select option 6A) |

- | CODE | DESCRIPTION |
|--------------------------|---|
| <input type="checkbox"/> | 11D NEMA 4X remote alarm panel
(must select option 6A) |
| <input type="checkbox"/> | 15A Control / Alarm circuit breaker |
| <input type="checkbox"/> | 16A 10' cord in lieu of 20' (per float) |
| <input type="checkbox"/> | 16B 15' cord in lieu of 20' (per float) |
| <input type="checkbox"/> | 16C 30' cord in lieu of 20' (per float) |
| <input type="checkbox"/> | 16D 40' cord in lieu of 20' (per float) |
| <input type="checkbox"/> | 17C Sensor Float® / internally weighted ▲ (per float) |
| <input type="checkbox"/> | 17D Sensor Float® / externally weighted ▲ (per float) |
| <input type="checkbox"/> | 17G MilliAmpMaster™ / pipe clamp ● (per float) |
| <input type="checkbox"/> | 17H MilliAmpMaster™ / externally weighted ● (per float) |
| <input type="checkbox"/> | 17J Sensor Float® / pipe clamp ▲ (per float) |
| <input type="checkbox"/> | 18A Timer override option with float (timed dose only) |
| <input type="checkbox"/> | 19F Fourth float to separate alarm function from lag (demand dose only) |
- Mechanically-activated ▲ Mercury-activated

