

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 a simple, easy-to-use touch pad on the inner door for programming and monitoring pump and float operation.

The panel configuration can be easily converted in the field to either a timed dose or demand dose by a simple jumper change, and by adding a display board (timed dose only) for programming pump ON/OFF times.

TOUCH PAD FEATURES

- A. **Control Power Indicator/Fuse.** Indicator light will illuminate if control power is present in panel.
- B. **Control Fuse Replace Indicator** will illuminate if control fuse is blown. Alarm will activate if control fuse is blown.
- C. **Alarm Power Indicator/Fuse.** Indicator light will illuminate if alarm power is present in panel.
- D. **Alarm Fuse Replace Indicator** will illuminate if alarm fuse is blown.
- E. **Float Indicators** will illuminate when floats are activated. Alarm will activate if a float operates out of sequence and the appropriate float indicator will flash.
- F. **HOA (Hand-Off-Automatic) Buttons** controls pump mode with indication. Hand mode defaults to Automatic when stop level is reached.
- G. **Pump Run Indicators** will illuminate when pump(s) is called to run.
- H. **Lead/Lag Selector** (with display board only) toggles pump operation, alternate, 1-2 and 2-1 operation.
- I. **Seven-Segment LED Display** shows mode, pumps elapsed time (hh:mm:ss), events (cycles), alarm counter, timed dose override counter, and ON/OFF times. (Display is standard on timed dose and optional on demand dose.)
- J. **Next Push Button** when pressed toggles display through: mode, elapsed time meters, lead/lag selector, cycle counters, and alarm counter. Timed dose mode also provides override counter and pump ON/OFF times.
- K. **Repeat Cycle Timer Display Push Buttons** when pressed sets pump ON/OFF times (timed dose only).

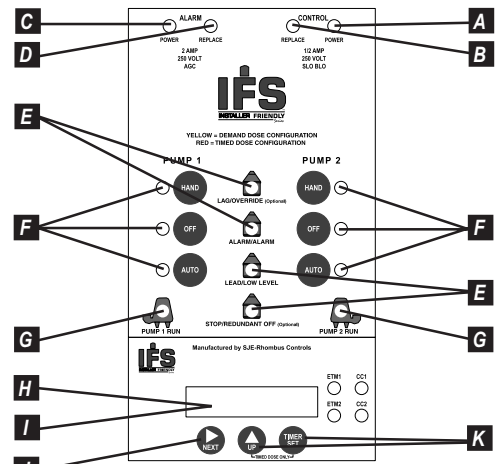
Note: LED display will turn off after one minute of not being used.

PANEL COMPONENTS

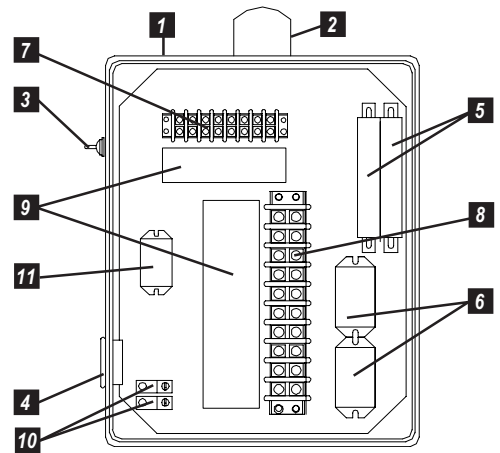
1. **Enclosure base** measures 12 X 10 X 6 inches (30.48 X 25.4 X 15.24 cm). NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use). **Note:** Options, voltage, and amp range selected may change enclosure size and component layout.
2. **Red Alarm Beacon** 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 line(s). Definite purpose contactors used when full load amps are above 15.
7. **Float Connection Terminal Block**
8. **Large Incoming Power/Pump Connection Terminal Block**
9. **Terminal Block Installation Labels**
10. **Ground Lugs**
11. **Alarm Activation Relay**

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

SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.



Model Shown IFS31W904X8AC (Inner door view)



Model Shown IFS31W904X8AC (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' Sensor Float® control switches
 - Timed Dose** - two 20' Sensor Float® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty



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	IFS		1	W					
MODEL IFS									
MODEL TYPE									
<input type="checkbox"/>	3 = DPLX TIMED DOSE (includes option 8AC standard)								\$839.00
<input type="checkbox"/>	4 = DPLX DEMAND DOSE								\$764.00
ALARM PACKAGE									
<input checked="" type="checkbox"/>	1 = alarm package (includes test/normal/silence switch, fuse, red light & horn)								Base
ENCLOSURE RATING									
<input checked="" type="checkbox"/>	W = NEMA 4X								Base
STARTING DEVICE									
<input type="checkbox"/>	1 = 120/208/240 VAC								Base
<input type="checkbox"/>	9 = 120 VAC								Base
PUMP FULL LOAD AMPS									
<input type="checkbox"/>	0 = 0-7 FLA								Base
<input type="checkbox"/>	1 = 7-15 FLA								Base
<input type="checkbox"/>	2 = 15-20 FLA								\$105.00
PUMP DISCONNECTS									
<input type="checkbox"/>	0 = no pump disconnect								Base
<input type="checkbox"/>	4 = circuit breaker(s)								
	120 VAC (must select starting device option 9)								\$70.00
	120/208/240 VAC (must select starting device option 1)								\$140.00
SWITCH APPLICATIONS									
<input type="checkbox"/>	H = floats (Timed dose = low level and alarm / Demand dose = stop, start, and lag/alarm)								Base
<input type="checkbox"/>	X = no float								
	timed dose								-\$50.00
	demand Dose								-\$75.00
Note: Pump down applications only.									
OPTIONS <i>Listed below</i>									
								Total Options	
								TOTAL LIST PRICE	

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

CODE DESCRIPTION	LIST PRICE	CODE DESCRIPTION	LIST PRICE
<input type="checkbox"/> 3A Alarm flasher	\$50.00	<input type="checkbox"/> 10K Anti-condensation heater	\$100.00
<input type="checkbox"/> 3B Manual reset alarm	\$25.00	<input type="checkbox"/> 11C NEMA 1 remote alarm panel (must select option 6A)	\$65.00
<input type="checkbox"/> 4A Redundant off	\$0.00	<input type="checkbox"/> 11D NEMA 4X remote alarm panel (must select option 6A)	\$170.00
<input type="checkbox"/> 4D Redundant off float - 20 ft. Sensor Float®	\$25.00	<input type="checkbox"/> 15A Control / Alarm circuit breaker	\$35.00
<input type="checkbox"/> 6A Auxiliary alarm contacts, form C	\$40.00	<input type="checkbox"/> 16A 10' cord in lieu of 20' (per float)	-\$2.00
<input type="checkbox"/> 8AC Display board includes: ETM counters, events (cycles) counter, alarm counter, override counter (timed dose only), and lead/lag selector switch. Display board also required for changing a demand dose panel to timed dose panel. Demand Dose	\$100.00	<input type="checkbox"/> 16B 15' cord in lieu of 20' (per float)	-\$1.00
Timed Dose (included as standard)	\$0.00	<input type="checkbox"/> 16C 30' cord in lieu of 20' (per float)	\$5.00
<input type="checkbox"/> 10E Lockable latch - NEMA 4X	\$40.00	<input type="checkbox"/> 16D 40' cord in lieu of 20' (per float)	\$15.00
<input type="checkbox"/> 10F Lightning arrestor (pump breakers required, control and alarm power combined)	\$160.00	<input type="checkbox"/> 17C Sensor Float® / internally weighted ▲ (per float)	\$5.00
		<input type="checkbox"/> 17D Sensor Float® / externally weighted ▲ (per float) ...	\$7.00
		<input type="checkbox"/> 17G MilliAmpMaster™/ pipe clamp ● (per float)	\$0.00
		<input type="checkbox"/> 17H MilliAmpMaster™/ externally weighted ● (per float) \$7.00	\$7.00
		<input type="checkbox"/> 18A Timer override option with float (timed dose only)	\$25.00
		<input type="checkbox"/> 19F Fourth float to separate alarm function from lag (demand dose only)	\$25.00

● Mechanically-activated ▲ Mercury-activated

MODEL	IFS	3	1	W	9	1	4	H	8AC10E		
Model Type										IFS3	\$839.00
Alarm Package										1	Base
Enclosure Rating										W	Base
Starting Device										9	Base
Pump Full Load Amps										1	Base
Pump Disconnects										4	\$70.00
Switch Application										H	Base
Options: Display, Lockable Latch										8AC	\$0.00
										10E	\$40.00
										TOTAL LIST PRICE	\$949.00