INSTALLER FRIENDLY SERIES® - IFS Three Phase Simplex

Three 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 208/240/480/575 VAC three 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™ sensor operating range is 3-39.9 inches (7.6-101.3 cm).
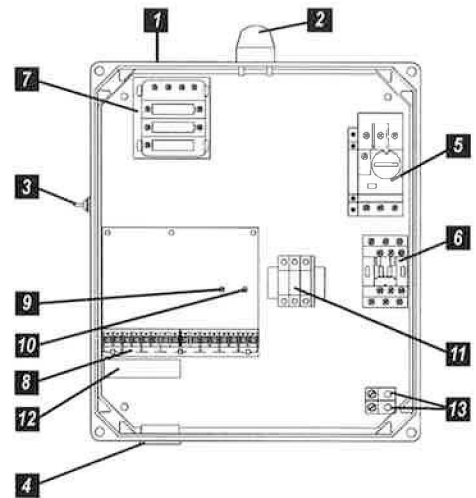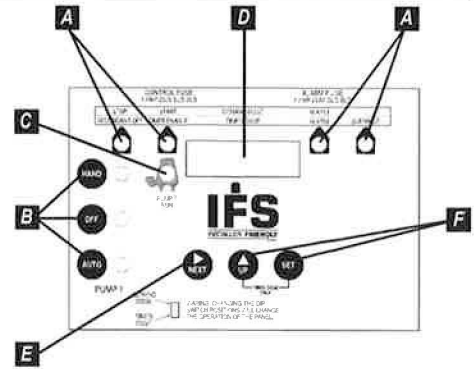
TOUCH PAD FEATURES

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 does 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 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). **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. **Motor Protective Switch** provides adjustable overload, branch circuit protection and pump disconnect.

6. **IEC Motor Contactor** controls pump by switching electrical lines.

7. **Multi-Tap Transformer** (208/240/480 VAC primary) provides 120V control alarm voltage.

8. **Float Connection 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. **Large Incoming Power Connection Terminal Block**

12. **Terminal Block Float Wiring Label**

13. **Ground Lugs**

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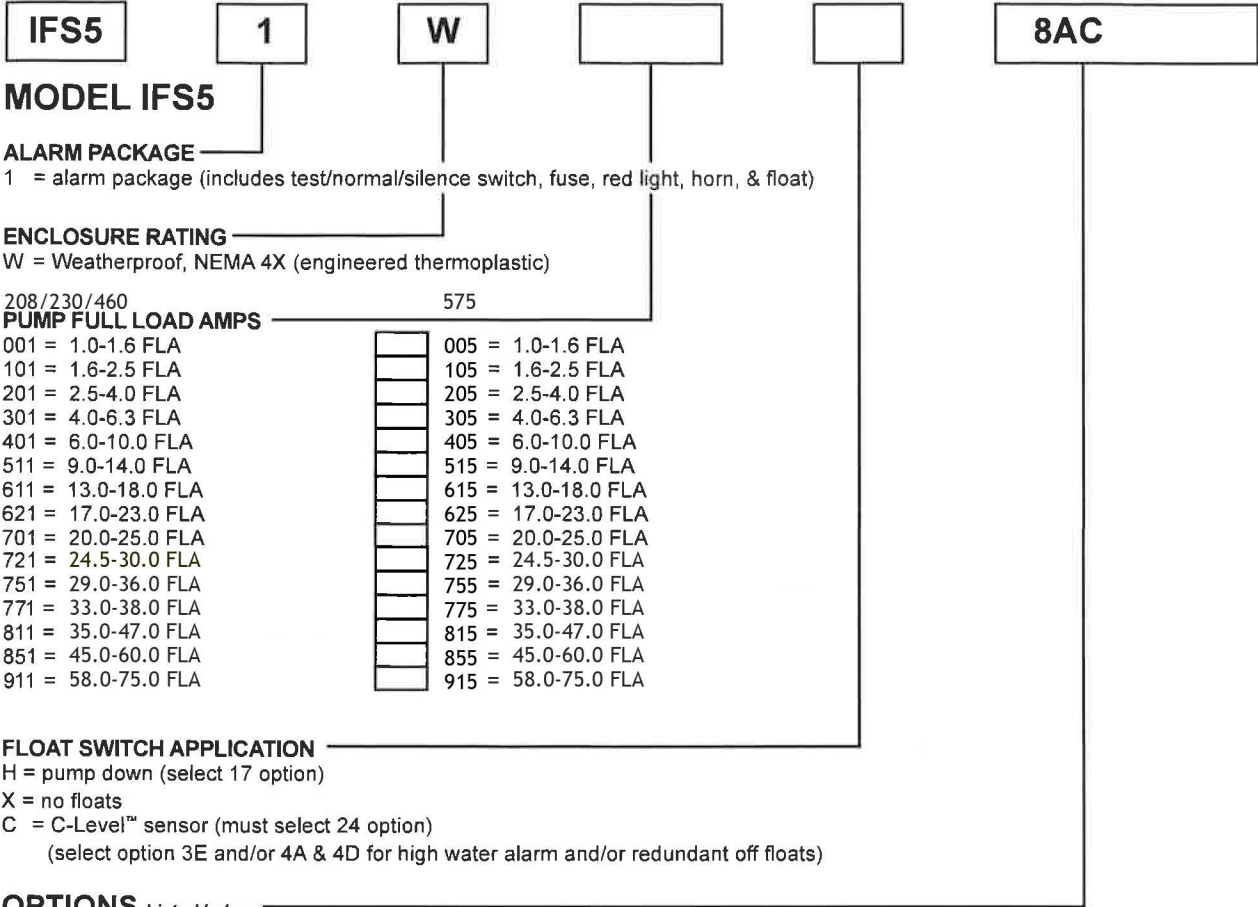

Model Shown IFS51W001X8AC

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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 three 20' MilliAmpMaster™ control switches

▪ Complete with step-by-step installation instructions

▪ Three-year limited warranty

c(UL)us LISTED

| IFS5 | | 1 | W | | | | 8AC |

MODEL IFS5

☑ **ALARM PACKAGE**
1 = alarm package (includes test/normal/silence switch, fuse, red light, horn, & float)

☑ **ENCLOSURE RATING**
W = Weatherproof, NEMA 4X (engineered thermoplastic)

PUMP FULL LOAD AMPS

208/230/460

	001 = 1.0-1.6 FLA
	101 = 1.6-2.5 FLA
	201 = 2.5-4.0 FLA
	301 = 4.0-6.3 FLA
	401 = 6.0-10.0 FLA
	511 = 9.0-14.0 FLA
	611 = 13.0-18.0 FLA
	621 = 17.0-23.0 FLA
	701 = 20.0-25.0 FLA
	721 = 24.5-30.0 FLA
	751 = 29.0-36.0 FLA
	771 = 33.0-38.0 FLA
	811 = 35.0-47.0 FLA
	851 = 45.0-60.0 FLA
	911 = 58.0-75.0 FLA

575

	005 = 1.0-1.6 FLA
	105 = 1.6-2.5 FLA
	205 = 2.5-4.0 FLA
	305 = 4.0-6.3 FLA
	405 = 6.0-10.0 FLA
	515 = 9.0-14.0 FLA
	615 = 13.0-18.0 FLA
	625 = 17.0-23.0 FLA
	705 = 20.0-25.0 FLA
	725 = 24.5-30.0 FLA
	755 = 29.0-36.0 FLA
	775 = 33.0-38.0 FLA
	815 = 35.0-47.0 FLA
	855 = 45.0-60.0 FLA
	915 = 58.0-75.0 FLA

FLOAT SWITCH APPLICATION
H = pump down (select 17 option)
X = no floats
C = C-Level™ sensor (must select 24 option)
   (select option 3E and/or 4A & 4D for high water alarm and/or redundant off floats)

OPTIONS *Listed below*

CODE	DESCRIPTION
3A	Alarm flasher
3B	Manual alarm reset
5A	Thermal cutout/heat sensor auto reset (for pumps w/thermal switch leads)
5E	Seal failure circuit & red indicator (2 wire)
6A	Auxiliary alarm contacts, form C
☑ 8AC	Display board includes: ETM counter, events (cycles) counter, alarm counter.
10E	Lockable latch - NEMA 4X
10G	Lightning arrestor
10K	Anti-condensation heater
11C	NEMA 1 remote alarm panel *(must select option 6A)*
11D	NEMA 4X remote alarm panel *(must select option 6A)*

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	SJE MilliAmpMaster™/ pipe clamp ● *(per float)*
17H	SJE MilliAmpMaster™/ externally weighted ● *(per float)*
17J	Sensor Float® / pipe clamp ▲ *(per float)*
24E	C-Level™ sensor with 4' vent tube and 20' cord
24F	C-Level™ sensor with 4' vent tube and 40' cord
24G	C-Level™ sensor with 8' vent tube and 20' cord
24H	C-Level™ sensor with 8' vent tube and 40' cord

● Mechanically-activated   ▲ Mercury-activated

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

SAMPLE

| MODEL | IFS | 5 | 1 | W | 001 | H | 8AC 10E 17G |

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