INSTALLER FRIENDLY SERIES® - IFS Single Phase Duplex

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-touse 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).

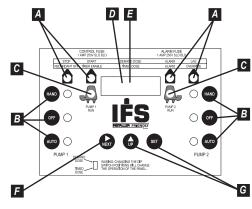
TOUCH PAD FEATURES

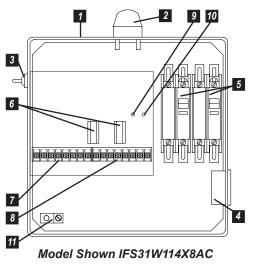
- **Level Status Indicators** illuminate when floats or set points are activated. Alarm will activate if a float operates out of sequence.
- HOA (Hand-Off-Automatic) Buttons control pump mode with indication. Hand mode defaults to Automatic when stop level or redundant off level is reached.
- C. Pump 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).
- **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

- 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.
- Red Alarm Beacon provides 360° visual check of alarm condition.
- 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.
- **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
- 5. Circuit Breakers (optional) provide pump disconnect and branch circuit protection.
- Power Relays control pump by switching electrical lines. Definite purpose contactors used when pump full load amps are above 15.
- **Float Connection Terminal Block**
- **Incoming Control/Alarm Power & Pump Terminal Block** 8.
- 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





Reg. Cdn Pat. & TM Off C-Level™ Sensor US Patent No. 8,336,385; 8,567,242; 8,650,949

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' control switches

Timed Dose - two 20' control switches

- Available with EZconnex® float system
- Complete with step-by-step installation instructions
- Five-year limited warranty





PO Box 1708, Detroit Lakes, MN 56502 1-888-DIAL-SJE • 1-218-847-1317 1-218-847-4617 Fax

email: customer.service@sjerhombus.com

www.sjerhombus.com B.13

	IFS		1	W							8AC	;	
MODEL IFS													
MODEL TYPE 3 = DPLX TIMED DOSE (includes option 8AC standard)													
	4 = DPLX DEN												
	ALARM PACKAGE												
	1 = alarm package (includes test/normal/silence switch, fuse, red light & horn) ENCLOSURE RATING ————————————————————————————————————												
	W = NEMA 4X	AIIIIO											
	STARTING DEV												
	1 = 120/208/240 9 = 120 VAC	VAC											
	PUMP FULL LOAD AMPS ————————————————————————————————————												
	1 = 7-15 FLA												
	2 = 15-20 FLA PUMP DISCONNECTS												
	0 = no pump dis	sconnect											
	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)												
	E = EZconnex® float switch system (select 34 or 35 option) timed dose												
	demand dose												
	X = no floats timed dose												
	demand dose C = C-Level [™] sensor (must select 24 or 29 option)												
	(select option 3E ànd/or 4A & 4D for high watér 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 Li	sted below		u pump omat]	
COI	DE DESCRIPTION					CODE	DESCR	RIPTION					
	J Duo alarm inputs A Alarm flasher	i				18A		override	float at panel	anly)			
	B Manual alarm res	set				19F				• /	unction froi	m lag	
3I	E High water alarm (Available only)	•			Г	7 245	•		float pan	,	ent tube &	20' cord	
<u> </u>	A Redundant off (s				Ì	_					ent tube &		
	Demand Dose Timed Dose				F						ent tube & ent tube &		
4[D Redundant off flo	at				_			L40 sens		crit tabe a	40 0014	
	(must select 4A of A Auxiliary alarm co			option)							ent tube & . ent tube &		
	C Display board inc	,		vents (cycles)	Ė				L100 sen		crit tabe a	40 001u	
	counter, alarm co	-		unter (timed dos	se [34D		nex® 4-P	ort, 25' w	/10' floa	ats (3) /pipe	e clamp,	
☐ 10F	only). (<i>Included a</i> E Lockable latch - I		.)			34E			ort, 50' w	/10' floa	ats (3) /pipe	e clamp,	
	F Lightning arresto		ect pump cir	cuit breakers,	г		sealing	g plug 🗱					
10I	control and alarn K Anti-condensatio		mbined)		L	34G		nex® 4-P g plug 🗱		//20 1108	ats (3) /pipe	e ciamp,	
	C NEMA 1 alarm pa		select optior	1 6A)		34H	EZcon	nex® 4-P		/20' floa	ats (3) /pipe	e clamp,	
	NEMA 4X alarm			on 6A)	Г	350		g plug 🗱 nex® 4-P	ort 25' w	/10' floa	ts (4) /nine	clamp 🛣	
	5A Control / Alarm circuit breaker 5A 10' cord in lieu of 20' (per float) 35D EZconnex® 4-Port, 25' w/10' floats (4) /pipe clamp 35E EZconnex® 4-Port, 50' w/10' floats (4) /pipe clamp									clamp 🗱			
	35G EZconnex® 4-Port, 25' w/20' floats (4) /pipe clamp * C 30' cord in lieu of 20' (per float) 35H EZconnex® 4-Port, 50' w/20' floats (4) /pipe clamp *												
	C 30' cord in lieu of		,		L	35H	∟∠con	nex® 4-P	ΌΠ, 5U΄ W	ı∠u' tioa	ts (4) /pipe	ciamp *	
	O 40' cord in lieu of C Sensor Float® / in		,	er float)									
	D Sensor Float® / e												
170	G MilliAmpMaster™/	pipe clamp	(per floa	<i>t</i>)									
	H MilliAmpMaster™/ L Sensor Float® / n	,	-	(per float)									

● Mechanically-activated ▲ Mercury-activated ★ EZconnex® mechanically-activated, narrow angle float switches with quick release connections.

B.14