

IP-SERIES™

Intelligent Panel Series with Floatless Technology

Liberty Pumps®

A Family and Employee Owned Company

Simplex Duplex

IP-Series™ control panels incorporate programmable pump features through a simple, easy-to-use touchpad on the inner door. Now pump programming and system monitoring is easier than ever!

Features

- NEMA 4X weatherproof enclosure for indoor/outdoor mounting
- Floatless level sensor is compact and eliminates multiple wide-angle float switches for controlling pumps
- Redundant "ALARM" float switch included for added security
- Easy-to-use touchpad for programming pump on/off levels and alarm level
- Separate control and alarm fuses
- Digital display board for system monitoring
- Alarm beacon and horn provide audio/visual warning of alarm condition
- Auxiliary contacts
- Panel is field convertible for either demand dose or timed dose applications
- Inner panel door provides increased safety
- Instruction label on inside cover for viewing and programming digital display



innovate. evolve.

IP-Series™ Simplex and Duplex Controls

Panel Features

Enclosure NEMA 4X

weatherproof for indoor or outdoor mounting.

Red Alarm Beacon

Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced. Alarm automatically resets when alarm condition is cleared.

Alarm Horn provides audio warning of alarm condition (83 to 85 decibel rating).

Circuit Breakers 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.

Incoming Control/Alarm Power and Pump Terminal Block
Control Power Indicator with fuse indicator light illuminates if control power is present in panel. Alarm activates if fuse is blown.

Alarm Power Indicator with Fuse indicator light illuminates if alarm power is present in panel.

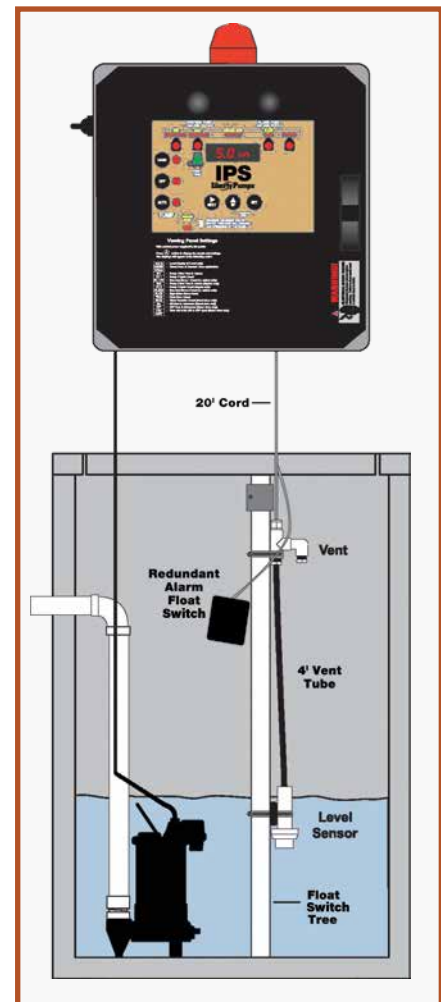
Innovative Floatless Technology



The compact level sensor detects the liquid level in the tank and sends a signal to the IP panel which displays this level in inches or centimeters for easier monitoring of the system. Pump activation and alarm levels can be adjusted using the panel touchpad - eliminating the need to go into the tank for manual adjustment.

Floatless Level Sensor Features

- Compact design for confined space applications
- Operates on low voltage
- One sensor takes the place of up to 4 float switches!
- Easy to install and adjust set points
- Level sensor operating range is 4" to 99" (8 cm to 252 cm)
- 10' vent tube
- 20' cord length from vent
- Stainless steel clamps for mounting
- A redundant "alarm" float switch included for extra security

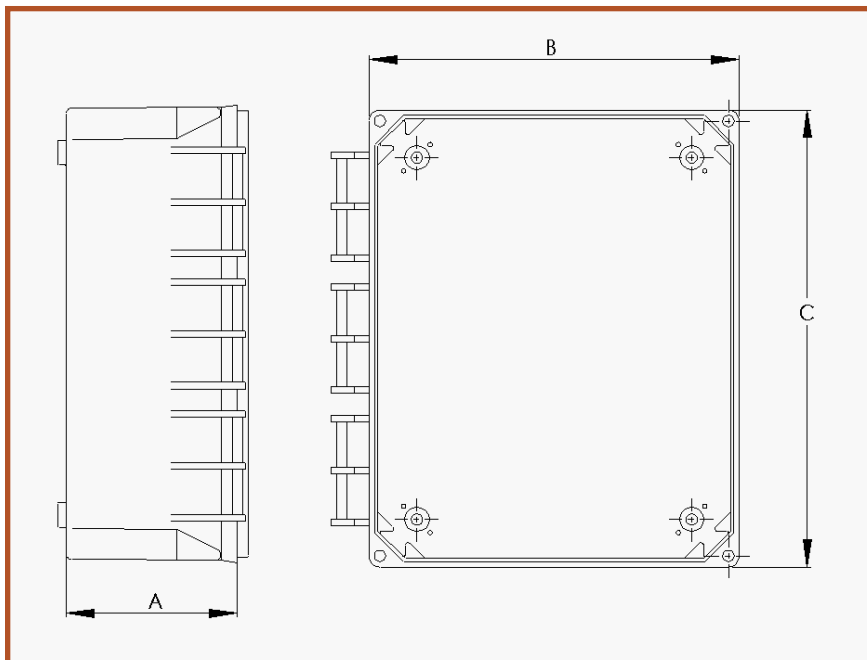


Note: Float switch tree not included

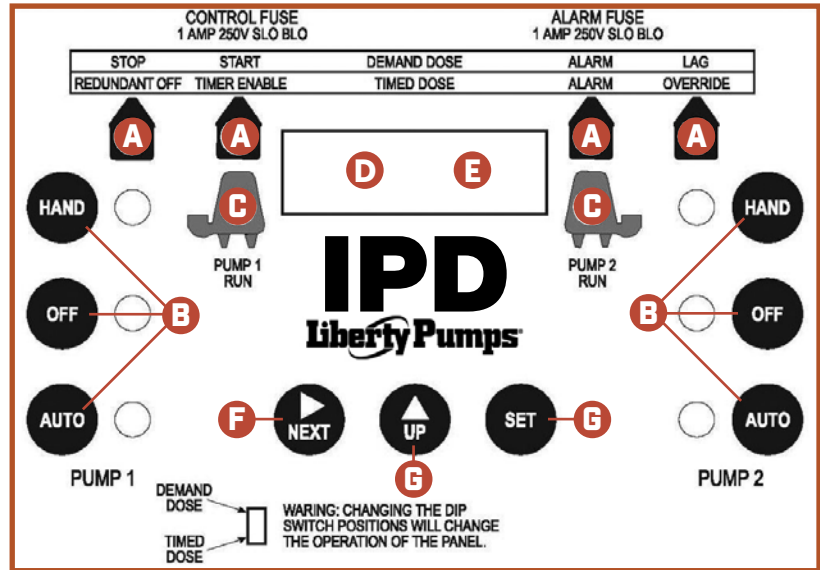
Smart touchpad and status indicators make pump programming easy!

Inner Door Touchpad Features

- A Level Status Indicators** illuminate when set points are activated.
- B HOA (Hand-Off-Automatic) buttons** control pump mode.
- C Pump Run Indicators** illuminate when pumps are called to run.
- D Lead/Lag Selector** toggles pump operation (alternate 1-2, 2-1).
- E 6-Digit LED Display** shows system information including: level in inches or centimeters, mode, pump's elapsed time (hh:mm), events (cycles), alarm counter, timed dose override counter (timed dose only), and ON/OFF times (timed dose only).
- F NEXT Pushbutton** toggles display.
- G UP and SET Pushbuttons** set pump ON/OFF times and activation levels.



DUPLIX PANEL SHOWN



IP panels come with easy-to-read wiring diagram and instruction label located on the inside cover for viewing and programming the digital display.

MODEL	A	B	C
IPS-24L	6"	10"	10"
IPS-24H	6"	10"	12"
IPD-24L	6"	10"	10"
IPD-24H	6"	14"	16"
IPS-34-131	6"	12"	14"
IPS-34-141	6"	12"	14"
IPS-34-171	6"	12"	14"
IPS-34-191	6"	12"	14"
IPS-34-511	6"	12"	14"
IPS-54-121	6"	12"	14"
IPS-54-151	6"	12"	14"
IPS-54-161	6"	12"	14"
IPD-34-131	6"	14"	16"
IPD-34-141	6"	14"	16"
IPD-34-171	6"	14"	16"
IPD-34-191	6"	14"	16"
IPD-34-511	6"	14"	16"
IPD-54-121	6"	14"	16"
IPD-54-151	6"	14"	16"
IPD-54-161	6"	14"	16"

IPS-Series SIMPLEX

MODEL	VOLTS	PHASE	ENCLOSURE	AMPS	WEIGHT
1-Phase					
IPS-24L	120/208/240	1	NEMA 4X	0 – 14.9	16 lbs
IPS-24H	120/208/240	1	NEMA 4X	15 – 20	16 lbs
*IPS-24HC	120/208/240	1	NEMA 4X	15 – 20	18 lbs
3-Phase					
IPS-34-131	208/240/480	3	NEMA 4x	1.6 – 2.5	16 lbs
IPS-34-141	208/240/480	3	NEMA 4x	2.5 – 4.0	16 lbs
IPS-34-171	208/240/480	3	NEMA 4x	4.0 – 6.3	16 lbs
IPS-34-191	208/240/480	3	NEMA 4x	6.0 – 10.0	16 lbs
IPS-34-511	208/240/480	3	NEMA 4x	9.0 – 14.0	16 lbs
IPS-54-121	575	3	NEMA 4x	1.6 – 2.5	16 lbs
IPS-54-151	575	3	NEMA 4x	2.5 – 4.0	16 lbs
IPS-54-161	575	3	NEMA 4x	4.0 – 6.3	16 lbs

*Includes capacitor and relay for pump models LSG202M-C and LSGX202M-C

All IP-Series™ panels are shipped complete with the floatless level sensor, redundant alarm float switch and auxiliary contacts standard.

For optional panel features or custom panels consult factory 800-543-2550.

IPD-Series DUPLEX

MODEL	VOLTS	PHASE	ENCLOSURE	AMPS	WEIGHT
1-Phase					
IPD-24L	120/208/240	1	NEMA 4X	0 – 14.9	23 lbs
IPD-24H	120/208/240	1	NEMA 4X	15 – 20	23 lbs
*IPD-24HC	120/208/240	1	NEMA 4X	15 – 20	26 lbs
3-Phase					
IPD-34-131	208/240/480	3	NEMA 4x	1.6 – 2.5	25 lbs
IPD-34-141	208/240/480	3	NEMA 4x	2.5 – 4.0	25 lbs
IPD-34-171	208/240/480	3	NEMA 4x	4.0 – 6.3	25 lbs
IPD-34-191	208/240/480	3	NEMA 4x	6.0 – 10.0	25 lbs
IPD-34-511	208/240/480	3	NEMA 4x	9.0 – 14.0	25 lbs
IPD-54-121	575	3	NEMA 4x	1.6 – 2.5	25 lbs
IPD-54-151	575	3	NEMA 4x	2.5 – 4.0	25 lbs
IPD-54-161	575	3	NEMA 4x	4.0 – 6.3	25 lbs

*Includes capacitor and relay for pump models LSG202M-C and LSGX202M-C.