# IP-SERIES™

## Intelligent Panel Series with Floatless Technology

## 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

## 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.
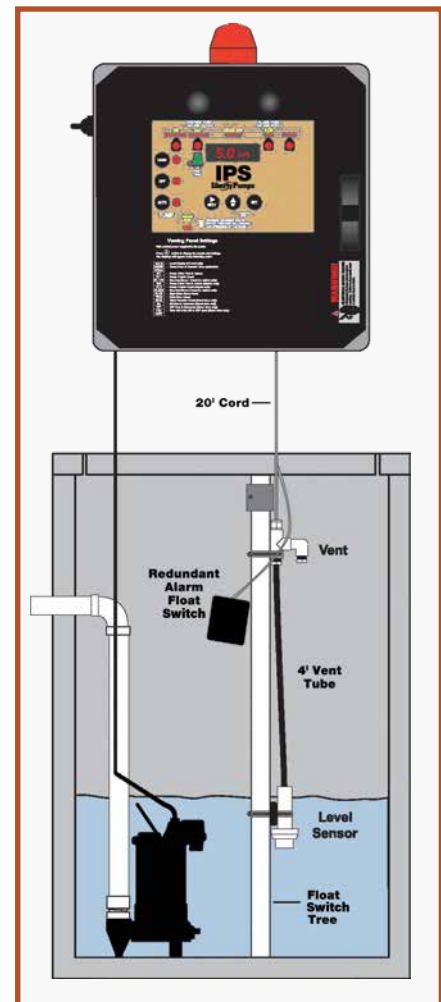
## Innovative Floatless Technology

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
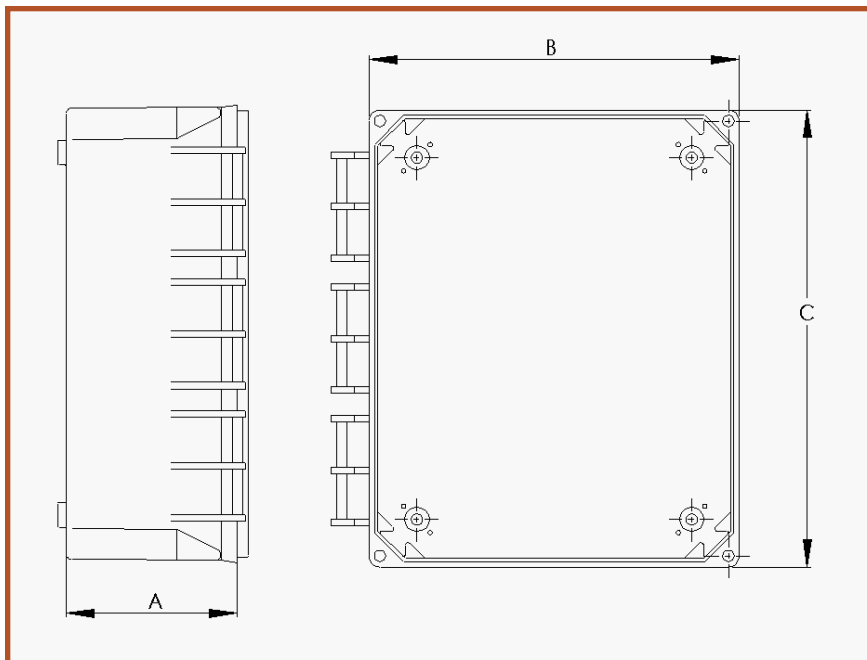- A redundant "alarm" float switch included for extra security

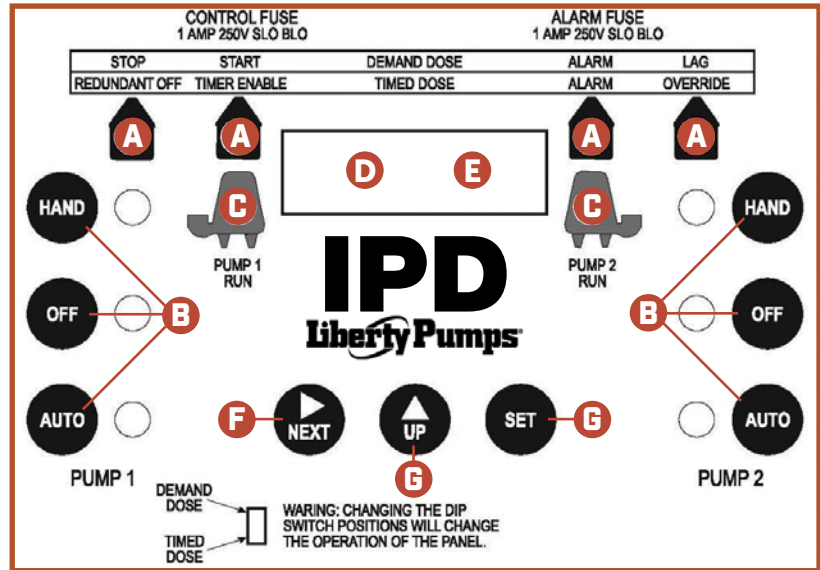**Note: Float switch tree not included**

# 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.

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.