

Simple Simplex®
Installation and Operator's Manual

IM392, Rev. 0217

Simple Simplex® Control Panel

The Simple Simplex® Control Panels will alert of a high liquid level and are designed to control a single phase pump. Applications include sewage pump chambers, sump pump basins, lift stations, and onsite installations. The controls are housed in a 8"x 6"x 4" NEMA 4X indoor/outdoor polycarbonate enclosure and UL listed in the United States and Canada.

Models:

SSP-1 (2 Float Operation)
SSP-1-3 (3 Float Operation)

Features:

- Designed to Control One 120VAC pump in sewage applications
- Operates pumps up to 1HP
- UL Listed for the United States and Canada
- NEMA 4X polycarbonate enclosure with stainless steel lockable latches
- Alarm visible features: red beacon alarm light, alarm test and silence buttons
- Alarm horn sounds at 85 decibels at 10'
- Includes float switches with 20' cords and mounting hardware

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WARNING

1. All installations must be in accordance with the National Electrical Code, and any other applicable state and local electrical requirements.

Panel Installation:

1. Caution: To maintain the NEMA 4X rating, make all wiring connections with seal tight cable grips or conduit connections.
2. Determine mounting location for control panel. Mount panel using mounting feet supplied.
3. **The control panel should not be mounted in an area that is subject to submersion.**
4. Run pump cable and float cables through conduit. Make field connections as shown on wiring diagram.
5. Run power line conductor through conduit. Wire to terminals per enclosed schematic. Branch circuit protection to be provided by contractor.
6. Mount float switches at appropriate levels. Be sure that the floats have a free range of motion to prevent entanglement.

To test the alarm circuit, push the test button the audible alarm shall sound and the red beacon will light. Press the silence button to silence the alarm.

Service:

Caution: Before checking electrical connections within the control or attempting to replace any components, turn off all branch circuits supplying power to the main control panel.

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Additional Panel Options:

LL - Low Level Alarm Circuit (optional)

Includes normally closed low level float switch. Alarm horn will sound and red beacon will light in the event of a low level. Comes with form c dry contact.

HH - High High Level Alarm (optional)

Includes normally open level float switch. Alarm horn will sound and red beacon will light in the event of a high high level. Comes with form c dry contact.

AF - Alarm Flasher

BB - 9V Battery Backup

S3 - No Floats Included

Troubleshooting:

Alarm Circuit

To test the alarm light and buzzer, press the test button on the front panel. If either the light or buzzer do not indicate, replace the light bulb or buzzer with same type.

Control Board and Fuse

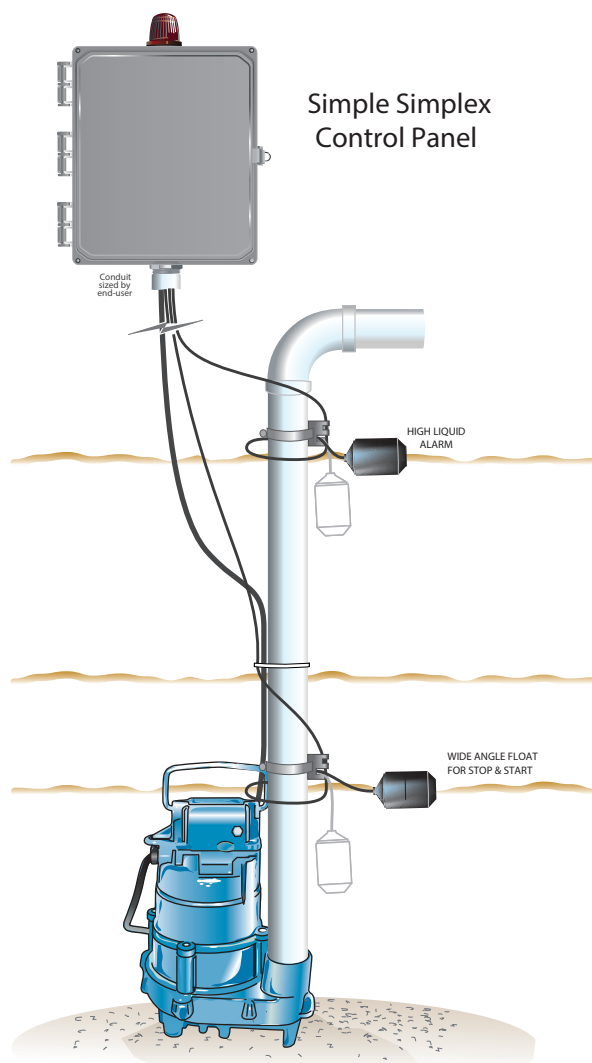
The control board is rated for 120VAC. If the power on light is not illuminating on the circuit board check the voltage at TS1-1 and TS1-2 with a voltage meter. If voltage present, check the fuse in the fuse block. If fuse is blown, replace fuse with same type. The dry contacts are rated for 0-125VAC.

Floats

Check floats for entanglement, full range of motion. Replace damaged floats.

Typical Installation for Simple Simplex® Control Panel

A typical Simple Simplex installation showing a wide angle float (stop and start) and a narrow angle high liquid alarm float. An SSP-2-3 would include 3 narrow angle floats.



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