

WS Series® Simplex Control Panel

The WS Series® simplex control panels will control a pump in sewage, wastewater, and dewatering applications. All panels are UL Listed for the United States and Canada and come with a five-year warranty.

Model	FLA Range
WS1P-TP-1001	(0.0-7.0 FLA)
WS1P-TP-1002	(7.0-15.0 FLA)
WS1P-TP-1003	(15.0-22.0 FLA)
WS1P-TP-1004	(22.0-28.0 FLA)
WS1P-TP-1005	(28.0-36.0 FLA)
WS1P-TP-1006	(37.0-50.0 FLA)

Enclosure Mounting: NEMA 4X RATED

Mounting Brackets - A mounting bracket and screw pack are provided with the premium enclosures. To assemble, turn the enclosure upside down on a flat surface, place the mounting bracket over the square boss either horizontally or vertically, and fasten the mounting bracket with the 1/4"-20 x 0.5 SS, countersunk phillips drive screws or vertically, with the mounting brackets in any config., using any acceptable fastening technique.

Covers/Doors - Covers/doors have a gasket pre-assembled to seal against the base.

Note: The control panel should not be mounted in a location that may be subject to submersion.

Panel Installation:

1. Caution: To maintain the NEMA 4X rating, make all wiring connections with seal tight cable grips or conduit connections.
2. Run pump cables and floats cables through conduit. Make field connections as shown on wiring schematic.
3. Run power line conductor through conduit. Wire to terminals per enclosed schematic.
4. Branch circuit protection to be provided by installer.
5. Panel circuit breakers are closed.
6. Floats are properly mounted at the correct levels.
Note: Floats shall have free range of motion without touching each other or other equipment.
7. Connect service conductors 120/208/240VAC to proper location.



www.seewaterinc.com
951.487.8073 • 888.733.9283 • info@seewaterinc.com
22220 Opportunity Way, Suite 101 • Riverside, CA 92518

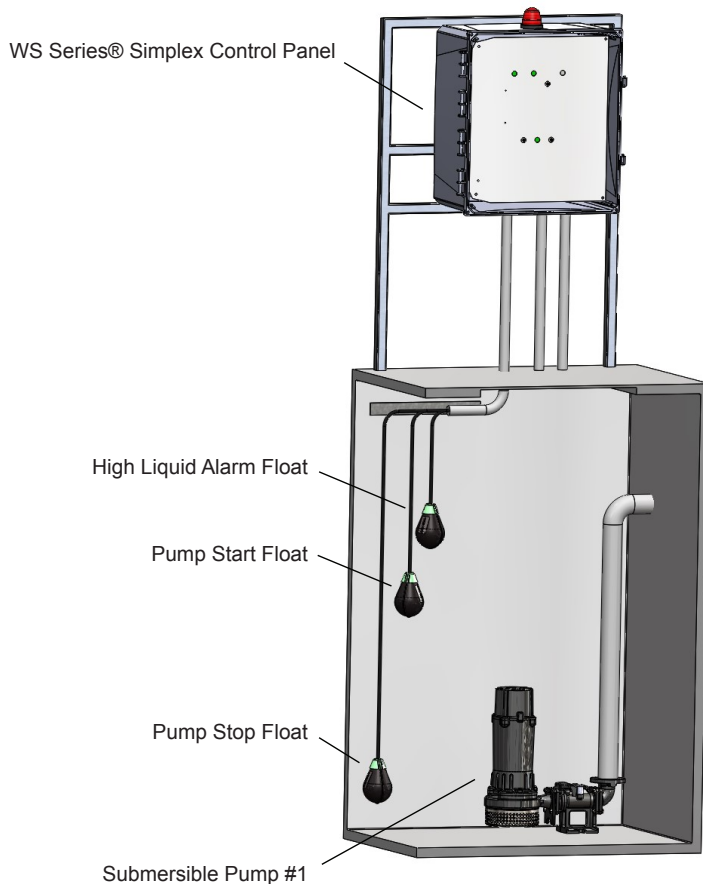
Sequence of Operation:

1. When the 'Stop' and 'Lead' float contact closes, the pump will energize and the pump run light will illuminate. The pump will remain operational until the 'Stop' float opens.
2. If the level continues to rise, the 'High' float will alarm. This will illuminate the 360 degree visible beacon and sound an 85 decibel at 10' buzzer.

Remote Monitoring Dry Contacts:

- Normally Open dry contacts for high level, pump run, and pump fault.
Note: refer to wiring schematic for proper termination.

Typical Installation of WS Series® Simplex Control Panel



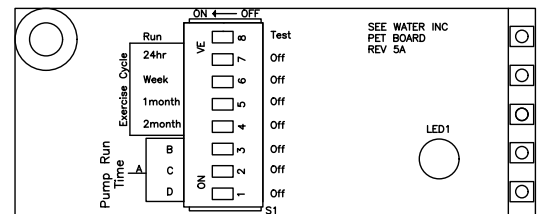
Additional Panel Options:

24 = Pump Exerciser

- Auto cycles pumps daily, weekly or monthly.

Run Time Options:

- Position A: 50ms (DIP Switch 1,2, and 3)
- Position B: 100ms
- Position C: 4s
- Position D: 8s



- 28 = Power On Dry Contact (Normally Open)
- 3R = Painted Steel Enclosure
- A2 = Install overloads outside listed FLA range
- AF = Alarm Flasher
- AH = Anti Condensation Heater
- C = Additional Cord Length Per Foot Per Component*
- CC = Cycle Counter w/ LCD Display & Reset
- CO = Convenience Outlet (User to supply 120 VAC)
- D1 = 120V Dry Contacts
- ET = Elapsed Time Meter w/ LCD Display & Reset
- GR = Generator Receptacle, I includes Transfer Switch
- IS = Intrinsically Safe
- LAD/ = Lightning Secondary Surge Arrestor
- LAW (LAD Delta / LAW Wye)
- LL = Low Level Alarm
- MD = Main Disconnect; Up to 100.0 FLA
- PM = Phase Monitoring
- PX = Pump Portal® Wireless Remote Communication
- SF = Seal Failure Circuit w/ Indicator Lights
- SS4 = Upgraded Enclosure (304 Stainless Steel)
- SS6 = Upgraded Enclosure (316 Stainless Steel)
- S3 = No Floats Option

*Additional cord length greater than 20': Specify after C.
Example: WS1P-TP-1003-C50. Indicates 50' cord lengths for all floats.



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