Power Post™

Pump Connection Center (standard) | Demand Dose, Integrated Alarm
15 Amp, 120/230VAC | SPPD Series (Models: PRPT-01 and PRPT-02)

Alderon™ INDUSTRIES

QUICK START GUIDE

QSG00522_ Rev02_Power Post Standard PRPT-01 and PRPT-02 SPPD Series | December 30, 2024 4:29 PM

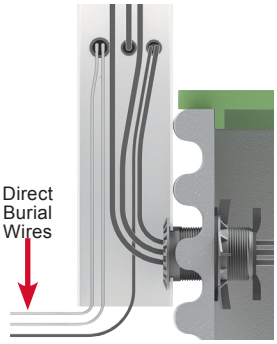
Safety Guidelines

WARNING

Before proceeding with the installation or operation of this product, read all instructions thoroughly, as well as complying with all federal, state and local codes, regulations, and practices. This product must be installed by qualified personnel familiar with all applicable local electrical and mechanical codes. Refer to the National Electrical Code (NEC) (NFPA 70). Failure to properly install, test, and operate this product can result in personal injury or equipment malfunction.

1. DISCONNECT POWER when installing or servicing the product. Failure to disconnect all power sources could result in serious injury or death.
2. NEVER enter a flooded space without proper Personal Protective Equipment (PPE). Always wear dielectric rubber boots and other applicable protective equipment when water is on the floor and you must service an energized pump, alarm system, or product.
3. DO NOT enter the water if the water level is higher than that of the protection your PPE offers or if your PPE is not watertight.
4. DO NOT use or install this product with or near flammable liquids.
5. DO NOT use or install this product in locations classified as hazardous or in explosive atmospheres as defined by any applicable electrical safety code.

Step 1: Install Post



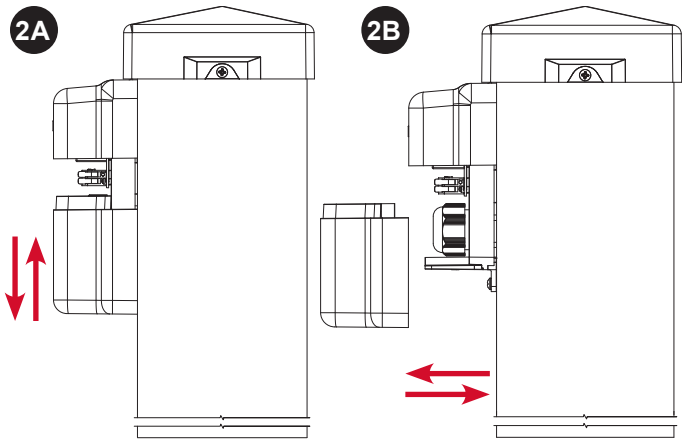
Determine location for post in the ground near a tank and drill access hole for customer supplied conduit/fittings or an Alderon riser connection kit. Route cables through access hole and wire as described in step 5. Run the direct burial power wires underneath the bottom of the post as shown in the diagram. If the riser cap extends past the width, a PVC spacer should be used, typically a 3.0-inch or 4.0-inch spacer (not shown).

CAUTION: Post enclosure MUST be at a minimum height of 12.0-inches above grade.

Note: Seal all conduits to prevent moisture and gases from entering the post per local codes.

Step 2: Remove / Install Bottom Cover

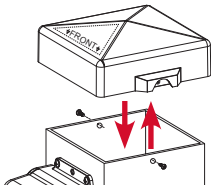
Remove the bottom enclosure cover screw, slide directly downward (2A) and pull directly away (2B). To install, line up the bottom enclosure cover with the grooves (2B), then slide directly upward (2A) until it meets the top of the enclosure so the screw hole is lined up and replace the screw at the bottom of the enclosure.



Step 3: Remove / Install Post Cap

Remove Post Cap:
1) Remove Screws and Lift Cap Upwards

Install Post Cap:
1) Position text FRONT (with arrows) Forward
2) Align Fastener Holes
3) Fasten Screws to Secure Cap to Post



Step 4: Installing Wire into WAGO

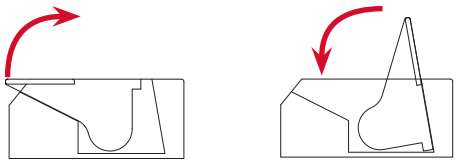
Before making wire connections and terminations, carefully read this step for proper functions of both types of WAGO connectors.

WARNING: Improper use of the connectors will cause damage, DO NOT use mechanical tools to open or close, hand usage only.

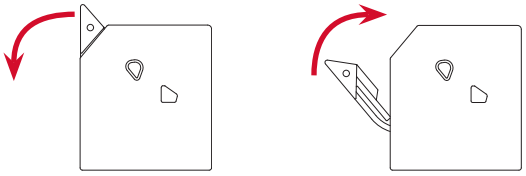
Wire Termination - Splice Connector WAGO (Fig. 1):
1) Lift tab(s) upward.
2) Insert wire(s) into slot.
3) Press tab(s) downward.
4) Make sure wire(s) are secured.

Wire Connection - Quick Snap Terminal WAGO (Fig. 2):
1) Press tab(s) outward. DO NOT open past 40° angle.
2) Insert wire(s) into slot.
3) Press tab(s) inward.
4) Make sure wire(s) are secured.

(Fig. 1)



(Fig. 2)



Step 5: Wiring

The diagram below shows the six terminals of three separate quick snap WAGO connectors on the circuit board that consists of four pairs of connections for the sensor, auxiliary contacts, and alarm power. The pre-installed WAGO connectors are for power/ground wire termination.

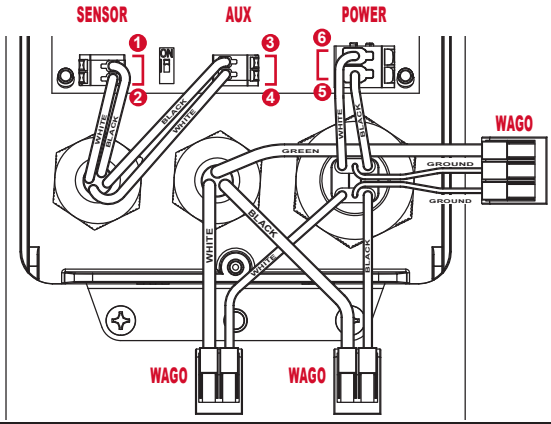
1) Bring the high level float switch cable through the cable grip on the left side of the panel. Connect the float switch to terminals 1 and 2.

2) Installing an auxiliary device to terminals 3 and 4 is optional. Bring the wire through the cable grip on the left side of the panel.

3) Bring two sets of power cables in through the cable grip on the right side of the panel. Pump power (120VAC or 230VAC) through the bottom and terminate using the pre-installed WAGO connectors on the female receptacle and the alarm power (120VAC only) through the top to terminals 5 (L1) and 6 (N).

4) After bringing all the cables through the cable grips and the wire terminations are complete, tighten all grips firmly.

5) NEVER leave ground wire(s) exposed inside panel, use provided WAGO connectors for wire termination.



Step 6: Power System and Quick Test

Make sure all steps of the installation and wiring process is completed and there is power to the product. The wiring diagram in step 5 and the testing steps listed below are for a typical setup using an alarm float switch, auxiliary contacts, incoming alarm power, and incoming pump power with optional filter switch.

1) TEST ALARM
Press and hold the test/silence pushbutton on the front of the enclosure. The red LEDs should illuminate (flashing), buzzer should annunciate, and auxiliary contacts should activate (if connected; optional).

2) TEST ALARM FLOAT SWITCH
The alarm switch should be connected to terminals 1 and 2. Activate the alarm switch, the red alarm LEDs should illuminate (flashing), buzzer should annunciate, and auxiliary contacts should activate. The alarm condition will reset when the alarm switch is deactivated.

3) TEST ALARM SILENCE
Press the test/silence pushbutton on the front of the enclosure while the alarm float switch is activated. The red alarm LEDs should stop flashing and turn solid, buzzer should silence, and auxiliary contacts should remain activated. The silence condition will clear when the alarm float switch is deactivated and the alarm will auto reset for the next alarm cycle.

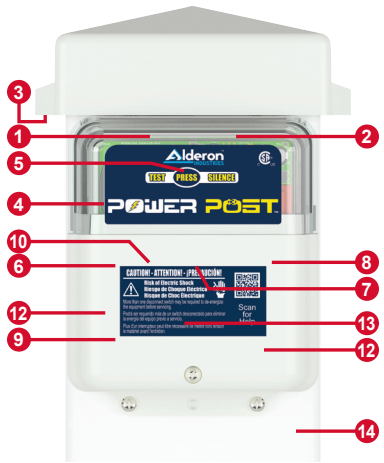
4) TEST FILTER SWITCH
The filter switch should be connected to the sensor terminals (1 and 2; not shown in this guide). Activate the filter switch, the red alarm LEDs should illuminate (flashing), buzzer should annunciate, and auxiliary contacts should activate. The alarm condition will reset when the filter switch is deactivated.

5) TEST PUMP and PUMP FLOAT SWITCH
The male end of the piggyback plug on the pump switch power cable should be connected to the female end of the pre-installed pump power receptacle, and then the male end of the pump power cable should be connected to the female end of the piggyback plug on the pump switch. Activate the pump switch, the pump should turn on and remain on until the pump switch is deactivated.

6) TEST WEEKLY
To ensure the product is functioning properly, test once a week.

BACKFILL: After installation, wiring, and testing are complete, take the dirt/soil removed and backfill the area dug for the post and riser.

Power Post™ - Standard Features



1	**Power On Indicator** - Green LEDs illuminate cover (indicators can be disabled)
2	**Alarm Beacon** - Red LEDs illuminate cover (flashing)
3	**Vented Post Cap** - Allows airflow, prevents build up of gases/condensation inside post
4	**Alarm Buzzer** - Annunciates to indicate an alarm condition
5	**Test/Silence Pushbutton** - Activates alarm test or silences buzzer during an alarm
6	**Sensor Input** - Terminals for the high level alarm float switch (and optional filter switch)
7	**Auxiliary Contacts** - Interface with external device, 24VDC, 0.5A maximum
8	**Alarm Power** - Terminals for line (L1) and neutral (N), 120VAC
9	**WAGO Connectors** - Pre-installed to female power receptacle, terminate pump power
10	**Power Indicator Turn Off** - Flip switch down to turn off, flip switch up to turn on
11	**QR Code (not shown)** - Scan code on cover for product information (alderonind.com)
12	**Cable Grips** - Pre-installed for easy installation and strain relief for cables/wiring
13	**Pump Power Receptacle (not shown)** - 15A, 120VAC or 208/230VAC (pre-installed)
14	**Post** - Wire routing; system/pump power and sensors cables, protects from water intrusion

Included with Product

- (1) Power Post™; junction box pre-installed on post
- (1) Pre-installed, female, 15A pump power receptacle
  (120VAC or 208/230VAC depending on part number)
- (3) Pre-installed cable grips
- (3) WAGO connectors

Customer Support

Online
alderonind.com

Email
info@alderonind.com

QR Code
Scan code for full product details

Specifications

Pump Power Receptacle:	120VAC or 208/230VAC, 15A, 60Hz
Pump Power:	120VAC or 208/230VAC, 13A or 15A, 60Hz (voltage/amps depends on model/part number)
Alarm Power:	120VAC, 60Hz
Power Consumption:	2.64 Watts maximum (alarm condition)
Auxiliary Contacts:	24VDC at 0.5 Amps maximum
Enclosure:	Outdoor, rated Type 3R
Certifications:	FCC Part 15 (US/Canada), CSA (US/Canada)