

# **BrownPrecast**

a division of Brown-Wilbert, Inc.



## **Product Reference Guide**

# **On-Site Waste Water Control Products**

**[Alderonind.com](http://Alderonind.com)**

April 2016 Edition

## Septic Tank Alarm/ Holding Tank Alarm

Install a Versa'larm™ Tank Alarm for protection against threatening liquid levels in applications such as: pumping tanks or holding tanks. The Versa'larm™ must be mounted indoors.

- Loud Buzzer and Alarm LED
- Auto Reset Buzzer Silence
- 9 VDC Battery Backup (battery not included)
- Alarm Dry Auxiliary Contacts
- Connects to Phone Dialers or Security Systems
- Expand the Versa'larm™ at any time with WaterSpotter™ Flood and Sump Sensors.
- Optional power-loss Auxiliary Contacts



▲ Mechanical Float Switch

## Versa'larm™ I/O Indoor/Outdoor Alarm

Use the Indoor/Outdoor Tank Alarm for septic and holding tanks. Control voltage is 120 VAC and the unit is rated Type 4X for outdoor and indoor installations.

- Use with any Float Switch Configuration - Cord Lengths, Pipe Clamp, Weighted
- Use as High Level Alarm (Normally Open Float Switches)
- Use as Low Level Alarm (Normally Closed Float Switches)
- Automatic Buzzer Reset
- Test and Silence Buttons
- Optional Alarm Auxiliary Dry Contacts



▲ Mechanical Float Switch

## 2-Zone Alarm

Install a Versa'alarm™ 2-Zone Alarm when you want to monitor two (2) separate sensors with one (1) Versa'alarm™.

When sensors connected to Zone 1 activate, the buzzer and Zone 1 LED activate.

When sensors connected to Zone 2 activate, the buzzer and Zone 2 LED activate. Works with any type of normally open float switch or Alderon's Waterspotter™ Sensors.

The Versa'alarm™ must be mounted indoors.

- Loud Buzzer and Auto Reset
- Separate LED's for Zone 1 and Zone 2 Alarms
- 9 VDC Battery Backup (battery not included)
- Separate Alarm Dry Auxiliary Contacts for Zone 1 and Zone 2
- Connects to Phone Dialers or Security Systems

Expand the Versa'alarm™ at any time with Waterspotter™ Flood and Sump Sensors and Float Switches.

## Versa'alarm™ 4X 2-Zone Outdoor Alarm

Use the Versa'alarm™ 4X 2-Zone Outdoor Alarm for monitoring two (2) independent sensors at the same time. Control voltage is 120 VAC and the unit is rated Type 4X for outdoor installations.

Monitor high/low levels, high level/filter alarm and many other applications requiring two (2) warning alarms in one (1) common alarm panel.

- Use with any Float Switch Configuration - Cord Lengths, Pipe Clamp, Weighted
- Use as High Level and Filter Alarm
- Use as High and Low Level Alarm
- Use as 50% Full and 100% Full Alarming
- Use any application for Two (2) Alarms in One (1) Panel
- Automatic Buzzer Reset
- Test and Silence Switches
- Independent Auxiliary Contacts for Zone 1 and Zone 2



▲ Filter Switch



▲ Mechanical Float Switch



▲ Filter Switch



▲ Mechanical Float Switch



## High Level Control Switch

Use Alderon's Control Switches when you want accurate and dependable level control for Alarms and Control Panels. Alderon's Control Switches are narrow angle mechanically activated and can be normally open (high level) and normally closed (low level). Mounting options are pipe clamp and externally weighted.

- Narrow Angle Control Switch
- PVC Float Housing
- Flexible 18 Gauge, 2 Conductor Cable
- Pipe Clamp or Externally Weighted
- 120/230 VAC, 4 Amp Rated
- No Hazardous Mercury
- Not Sensitive to Turbulence or Rotation
- Silver Contacts Reliably Switches Small Amperage Loads
- Works on Intrinsically Safe Circuits
- UL Listed
- 3 Year Warranty



## Big Switch™ Pump Switch

Install an Alderon Big Switch™ pump switch for long lasting reliable pump control. Connecting to a pump is simple with the piggyback plug or hard wire with bare lead style in a junction box or control panel. Patented mechanical contacts provide heavy duty switching up to 15 amps.

- Wide Angle Pump Switch
- 8" - 22" Pumping Range
- 15 Amp Rating, 120 VAC or 230 VAC
- Normally Open (pump down) or Normally Closed (pump up)
- Pipe Clamp Mounting
- PVC Float Housing
- Flexible 14 Gauge, 2 Conductor Cable
- No Hazardous Mercury
- Not Sensitive to Turbulence or Rotation
- UL Listed
- 3 Year Warranty



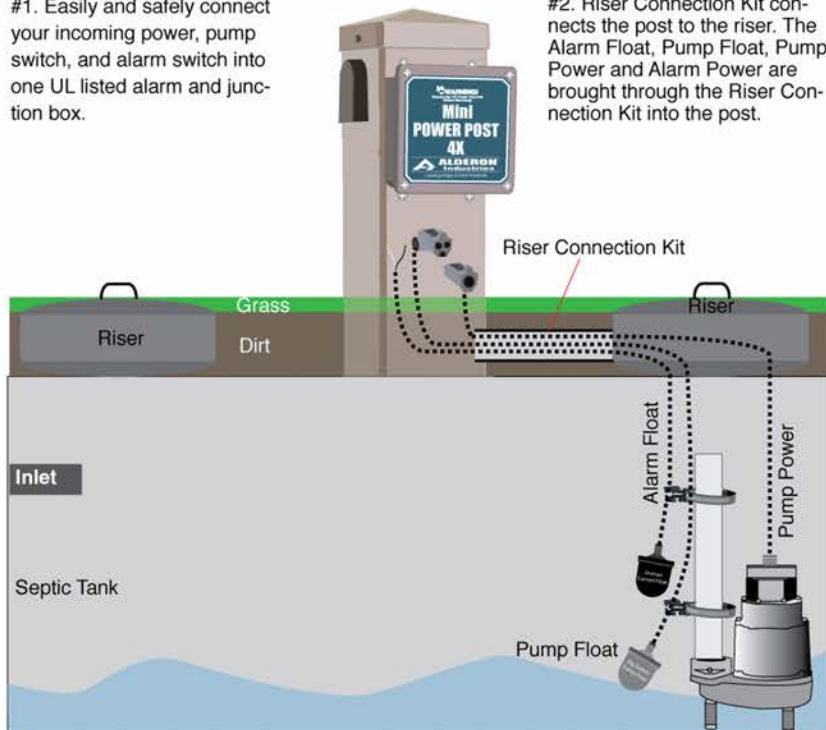
## Installation Notes

### Mini Power Post™ 4X Pump Connection Center

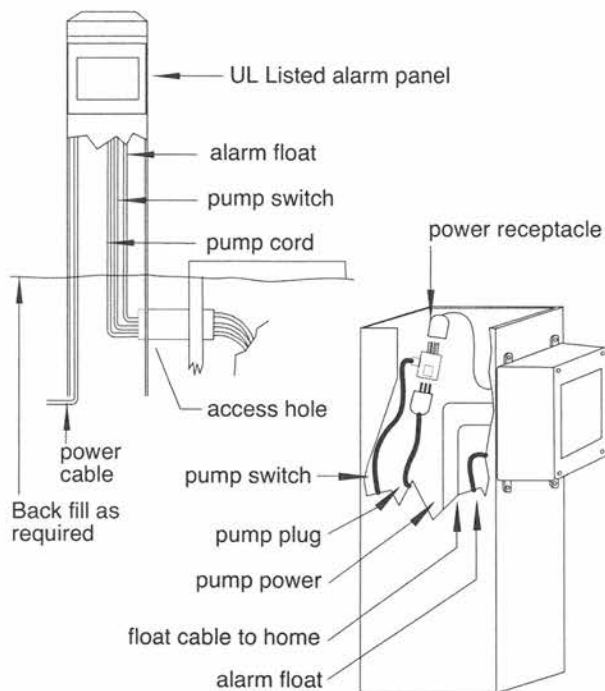
Provides safe and easy connections for all components in your on site septic systems

#1. Easily and safely connect your incoming power, pump switch, and alarm switch into one UL listed alarm and junction box.

#2. Riser Connection Kit connects the post to the riser. The Alarm Float, Pump Float, Pump Power and Alarm Power are brought through the Riser Connection Kit into the post.



### Mini Power Post™ 4X Installation Notes

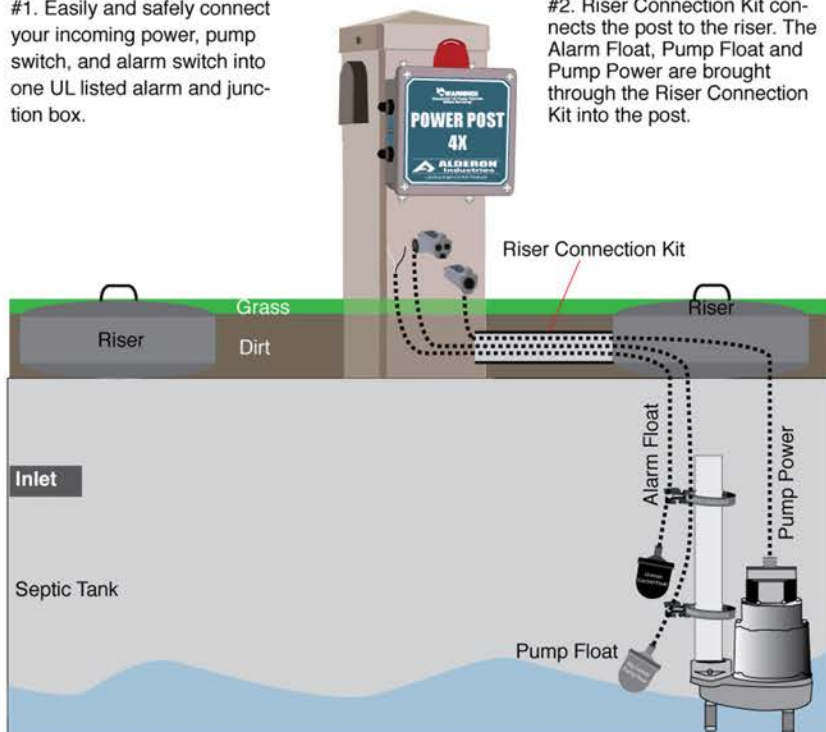


### Power Post™ 4X Pump Connection Center

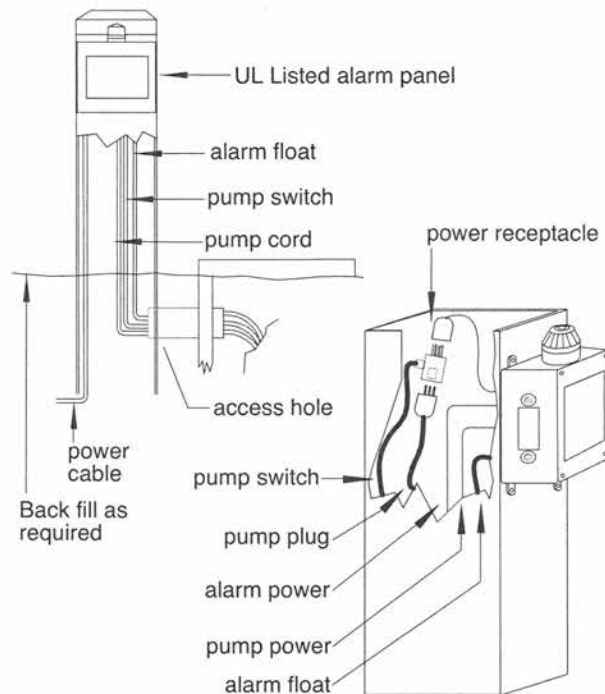
Provides safe and easy connections for all components in your onsite septic systems

#1. Easily and safely connect your incoming power, pump switch, and alarm switch into one UL listed alarm and junction box.

#2. Riser Connection Kit connects the post to the riser. The Alarm Float, Pump Float and Pump Power are brought through the Riser Connection Kit into the post.



### Power Post™ 4X Installation Notes



## Mini Power Post<sup>™</sup> with Remote Indoor Versa'larm<sup>™</sup>

The Mini Power Post<sup>™</sup> includes a separate indoor Versa'larm<sup>™</sup> alarm panel for high level warning. Install the Mini Power Post<sup>™</sup> to the riser on the pump chamber in septic systems to provide a fast installation while also protecting all power wires, float and pump cables inside the protective post. The pump switch and pump plugs are readily accessible by removing top cover of the post for quick access to test the pump without exposing the user to the electrical wiring connections which are made inside the junction box preventing electrical shock hazards.

- UL Listed Wiring Enclosure
- Heavy Duty PVC Post - 2.5 Feet Tall (4 Feet Optional)
- Quick Access to Piggyback Plug - Top Cover of Post
- Vented Post - Protects Plug Connections from Corrosive Septic Gases if Cable Seal is Breached
- Electrical Wiring is Performed Inside Junction Box with Heavy Duty Gas-Tight Cable Connectors
- Junction for Wiring Alarm Float and Indoor Versa'larm<sup>™</sup> Alarm Panel
- 120 VAC or 230 VAC, 15 Amp Pump Receptacle Models
- Optional PVC Riser Connection Kit and Cable Seal Grommet - Available in 2" and 2.5" Conduit Sizes
- Optional Alarm and Pump Float Switch Arrangement
- Indoor Remote Versa'larm<sup>™</sup> with 9 Volt Battery Backup (battery not included)
- Optional 2-Zone Versa'larm<sup>™</sup> for Filter Switch Monitoring



▲ Indoor Alarm



## **Power Post™ 4X with Integral Outdoor Alarm**

The Power Post™ includes an integral high level warning consisting of a beacon, buzzer, alarm test and silence buttons. Install the Power Post™ to the riser on the pump chamber in septic systems to provide a fast installation while also protecting all power wires, float and pump cables inside the protective post. The pump switch and pump plugs are readily accessible by removing top cover of the post for quick access to test the pump without exposing the user to the electrical wiring connections which are made inside the junction box preventing electrical shock hazards.

- UL Listed
- Integral High Level Alarm - Beacon, Buzzer, Test and Silence Buttons
- Heavy Duty PVC Post - 4 Feet Tall
- Quick Access to Piggyback Plug - Top Cover of Post
- Vented Post - Protects Plug Connections from Corrosive Septic Gases if Cable Seal is Breached
- Electrical Wiring is Performed Inside Junction Box with Heavy Duty Gas-Tight Cable Connectors
- 120 VAC or 230 VAC, 15 Amp Pump Receptacle Models
- Optional PVC Riser Connection Kit and Cable Seal Grommet - Available in 2" and 2.5" Conduit Sizes
- Optional Alarm and Pump Float Switch Arrangements



## Power Post<sup>™</sup> 2-Zone

The Power Post 2-Zone includes an integral dual alarm for High Level and Filter Alarm warnings. The alarm system includes: red beacon (high level), amber beacon (filter alarm), buzzer, alarm test and silence switches. Choose between event counter, elapsed time meter and pump run indication options. Install the Power Post<sup>™</sup> 2-Zone to the riser on the pump chamber in septic systems to provide a fast installation while also protecting all power wires, float and pump cables inside the protective post. The pump switch and pump plugs are readily accessible by removing top cover of the post for quick access to test the pump without exposing the user to the electrical wiring connections which are made inside the junction box preventing electrical shock hazards.

- Dual Alarm For High Level and Filter Alarms
- Red Beacon - High Level
- Amber Beacon - Filter Alarm
- Buzzer, Test and Silence Switches - Auto Reset
- Choose Event Counter, Elapsed Time Meter or Pump Run Indicator
- Heavy Duty PVC Post - 4 Feet Tall
- Quick Access to Piggyback Plug - Top Cover of Post
- Vented Post - Protects Plug Connections from Corrosive Septic Gases if Cable Seal is Breached
- Electrical Wiring is Performed Inside Junction Box with Heavy Duty Gas-Tight Cable Connectors
- 120 VAC or 230 VAC, 15 Amp Pump Receptacle Models
- Optional PVC Riser Connection Kit and Cable Seal Grommet - Available in 2" and 2.5" Conduit Sizes





## Power Pedestal 2-Zone

The Power Pedestal™ 2-Zone includes an integral dual alarm for High Level and Filter Alarm warnings. The alarm system includes: red beacon (high level), amber beacon (filter alarm), buzzer, alarm test and silence switches. A large enclosure is attached to the pedestal and provides room for circuit breaker and pump monitoring options. Choose between event counter, elapsed time meter and pump run indication options. Also choose to add circuit breakers for alarm/control power and pump circuits. Install the Power Pedestal™ 2-Zone to the riser on the pump chamber in septic systems to provide a fast installation while also protecting all power wires, float and pump cables inside the protective pedestal.

- Dual Alarm for High Level and Filter Alarms
- Red Beacon - High Level
- Amber Beacon - Filter Alarm
- Buzzer, Test and Silence Switches - Auto Reset
- Choose Event Counter, Elapsed Time Meter or Pump Run Indicator
- Choose Alarm and Pump Circuit Breaker Options
- Heavy Duty Enclosure Attached to 36" Tall Plastic Pedestal
- Quick Access Door on Pedestal for Wire Installation
- Gas-Tight Power Wire Cable Connectors and Grommet Seal for Float/Pump Cables
- 120 VAC or 230 VAC, 15 Amp Pump Receptacle Models
- Optional PVC Riser Connection Kit and Cable Seal Grommet - Available in 2" and 2.5" Conduit Sizes



## Simplex SmartIQ

Use the Simplex SmartIQ control panel for maximum flexibility for site conditions. Easily convert from timed to demand dosing with the push of a button. The SmartIQ panel programs in hours, minutes, and seconds to maintain accurate control when timed dosing. Quickly access alarm events and pump history. Counting events include: power loss, high level, low level, pump run, and timer override. Elapsed Time Metering include: pump run and timer override.

- Type 4X Outdoor Rated Enclosure
- Pushbutton Conversion from Timed to Demand Dosing
- Includes Three (3) Mechanical Float Switches
- Demand Dose Float Functions: Redundant Off (low), Timer Enable, Timer Override, High Level (extra float needed to use all float functions)
- Monitored Event Counts: Power Loss, High Level, Low Level, Pump Run, Timer Override
- Monitored Elapsed Time: Pump Run Time
- HOA Switch
- Pump Start Power Relay
- Alarm Beacon, Buzzer, Test and Silence Switch - Auto Reset



## Duplex SmartIQ

Use the Duplex Smart IQ control panel for maximum flexibility for site conditions. Pumps will alternate after each pumping cycle. Easily convert from timed to demand dosing with the push of a button. The SmartIQ panel programs in hours, minutes, and seconds to maintain accurate control when timed dosing. Quickly access alarm events and pump history.

- Type 4X Outdoor Rated Enclosure
- Alternating Pump Control
- Pushbutton Conversion from Timed to Demand Dosing
- Includes Four (4) Mechanical Float Switches
- Demand Dose Float Functions: Stop, Start, Lag, Alarm
- Timed Dose Float Functions: Redundant Off (Low), Timer Enable, Timer Override, High Level
- Monitored Event Counts: Power Loss, High Level, Low Level, Pump 1 Run, Pump 2 Run, Timed Normal Pump 1 Run, Timed Normal Pump 2 Run, Timer Override
- Monitored Elapsed Time: Pump 1 Run, Pump 2 Run
- HOA Switch - Each Pump
- Pump Start Power Relay - Each Pump
- Alarm Beacon, Buzzer, Test and Silence Switch - Auto Reset





## Simplex Timed Dosing

Use the Simplex Hard Wired Timed Dosing Panels when operators prefer analog dial type timers and components connected with conventional wire and terminal blocks. Three 20-foot mechanical floats are included. Optional fourth float for Redundant Off.

- Type 4X Outdoor Rated Enclosure
- Programmable Dial Type Repeat Cycle Timer
- Includes Three (3) Mechanical Float Switches
- Timed Dose Float Functions: Redundant Off (Low), Timer Enable, Timer Override, High Level (Redundant Off Float Optional)
- HOA Switch
- Pump Start Power Relay
- Numbered Terminal Block
- Alarm Beacon, Buzzer, Test and Silence Switches - Auto Reset
- Options: Event Counter, Elapsed Time meter, Auxiliary Contacts, Redundant Off Float



## Duplex Timed Dosing

Use the Duplex Hard Wired Timed Dosing Panels when operators prefer analog dial type timers, plug-in alternating relay and components connected with conventional wire and terminal blocks. Three 20-foot mechanical floats are included. Optional fourth float for Redundant Off.

- Type 4X Outdoor Rated Enclosure
- Alternating Pump Control
- Programmable Dial Type Repeat Cycle Timer
- Includes (3) Mechanical Float Switches
- Timed Dose Float Functions: Redundant Off (Low), Timer Enable, Timer Override, High Level (Redundant Off Float Optional)
- HOA Switch - Each Pump
- Pump Start Power Relay - Each Pump
- Numbered Terminal Block
- Alarm Beacon, Buzzer, Test and Silence Switches - Auto Reset
- Options: Event Counter, Elapsed Time Meter, Auxiliary Contacts, Redundant Off Float





## Pump Tracker™ ETM

The Pump Tracker™ Piggyback ETM is an elapsed time meter with a special piggyback plug. When installed in-between the piggyback pump switch and pump plugs, the unit will register elapsed time whenever the pump switch activates and turns on the pump. Install the Pump Tracker™ in a junction box or control panel that has enough room to mount the unit.

- 12" Piggyback Plug
- Mounts in-between Pump Float Piggyback and Pump Plugs
- Records Pump Run Time up to 99,999 hours
- Available in 120 VAC or 230 VAC



## Pump Tracker™ ETM/CC

The Pump Tracker™ ETM/CC is a combination elapsed time meter and pump cycle counter with a special piggyback plug. When installed in-between the piggyback pump switch and pump plugs, the unit will register elapsed time and count pump cycles whenever the pump switch activates and turns on the pump. Install the Pump Tracker™ in a junction box or control panel that has enough room to mount the unit.

- 12" Piggyback Plug
- Mounts in-between Pump FLoat Piggyback and Pump Plugs
- Records Pump Run Time up to 99,999 hours
- Records Pump Cycle Counts up to 999,999 cycles
- Available in 120VAC or 230VAC

