

WPXX Single Phase Control Panel

1. This unit must be installed by a qualified electrician as defined under federal, state and local electrical codes.
- 2.. This unit must be installed per all applicable electrical codes
3. Warning! Electrical Shock hazard exists. Disconnect ALL power sources before installation of the Control Panel.
4. Determine mounting location of the Control Panel. Unit may be installed indoor or outdoors. System is Type 4X rated.
5. Determine and install type of enclosure wiring entrance devices. Recommend 1/2" conduit terminal adapters if using conduit.
6. Wire to Alarm panel and external loads as explained in this manual.
7. Call Alderon at 218-483-3034 for any assistance.



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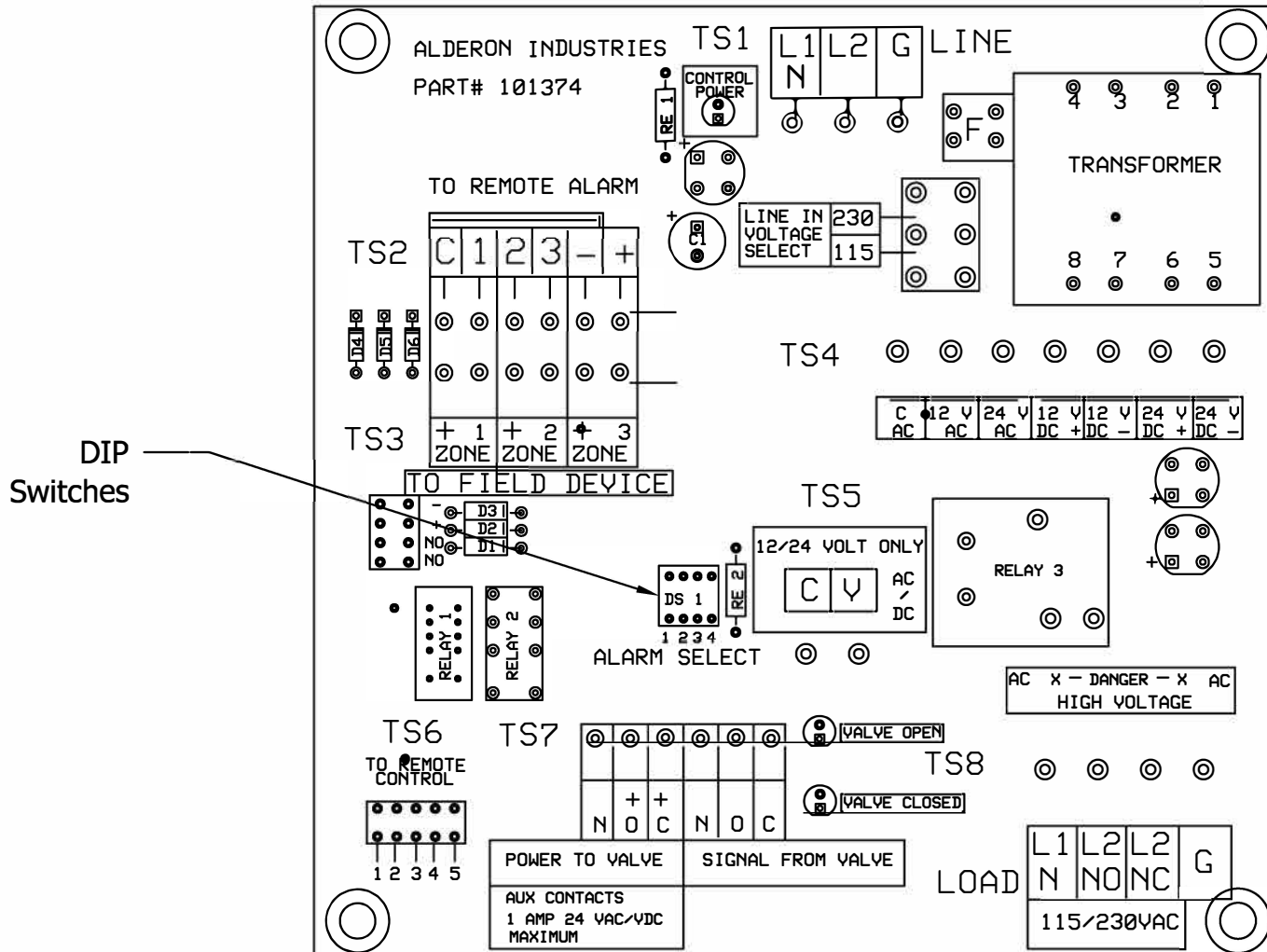
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DWG. Number:	WP Control
Quote Number:
Drawn By:	Engineering
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Date:
Revision Level:	001

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Model WPXX Single Phase Control Panel Installation and Operation Manual

The WaterPro Control Panel connects water sensors to an Alderon INDOOR Versa'alarm and also connects an internal 15 Amp power relay and Low Voltage Valve relay to an external load such as a solenoid valve, motorized ball valve and motor loads. The power relay can be activated by either zones 1,2 or 3 by placing each zone's DIP switch to the "ON" position. DIP switch 4 is Factory Set to Off(down position) - this means the valve open and closed LED's will be activated by limit switches on the valve. If using a valve without feedback limit switches, place DIP Switch 4 to ON and the LEDs will indicate if the Power Relay is Engergized or De-Engergized. To reset the system, press the reset pushbutton on the front cover of the Control Panel.



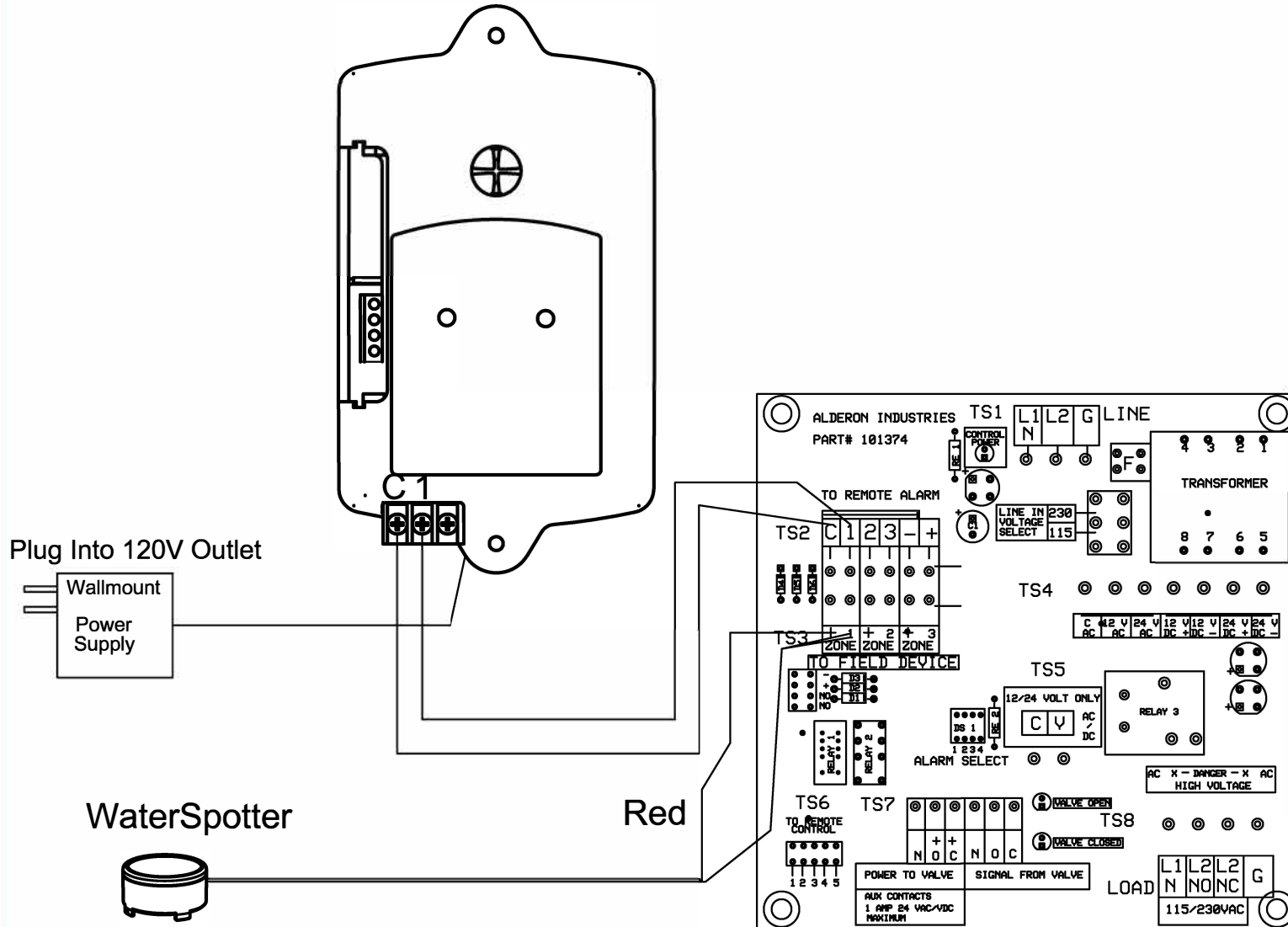
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Connecting to a 1 Zone Versa'alarm

1. Connect terminals C and 1 from the Control Panel to C and 1 of the Remote Alarm Panel.
2. Connect float switch or Waterspotter to Zone 1 terminals + and 1 of the Control Panel. Red wire from WaterSpotter MUST connect to the + terminal. Multiple sensors can be connected to Zone 1.
3. Place DIP switches 1 to the "ON" position. Place DIP switches 2 & 3 to the "OFF" position. When the Alarm is activated, the Power relay energizes until manually reset.



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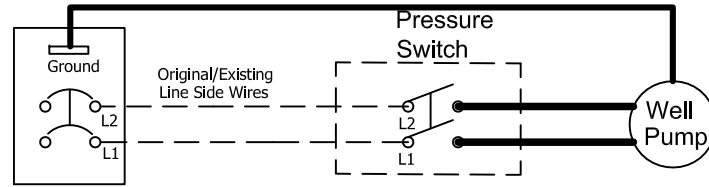
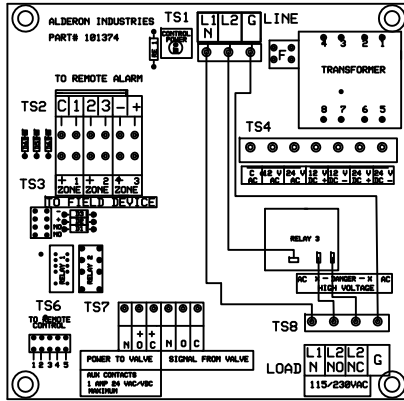
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Well Power Shut Down Flood Prevention Application

WaterPro Power Source SAME as Power for Well Pump

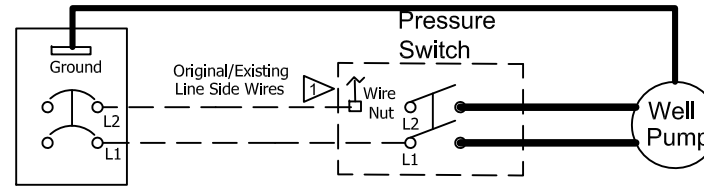
Circuit Breaker Panel/ Or Disconnect Switch



230 V, 15 Amps
Maximum

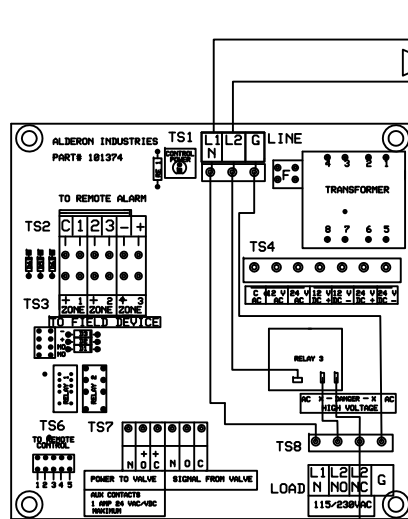
1. Disconnect line side "L2" of pressure switch wires and wire nut "new" 12 AWG wire that will connect to the WaterPro Control Panel terminals L2 on TS1 Terminal Strip. Make sure to put the Voltage Selector Switch to 230V!

Note: If using 120V pump put Voltage Switch to 120V.

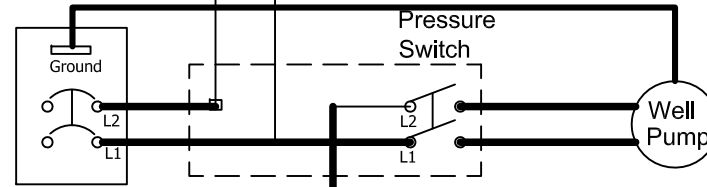


230 V, 15 Amps
Maximum

2. Wire "New" 12 AWG wire from WaterPro control panel L1 on TS1 Terminal Strip and connect the other end of the wire to EITHER L1 from circuit breaker panel/disconnect switch OR Line Side of pressure Switch "L1".



Circuit Breaker Panel/ Or Disconnect Switch



230 V, 15 Amps
Maximum

3. Wire "New" 12 AWG wire from WaterPro control terminals L2(NC) on TS8 terminal strip to the Line Side of the Pressure Switch, "L2"

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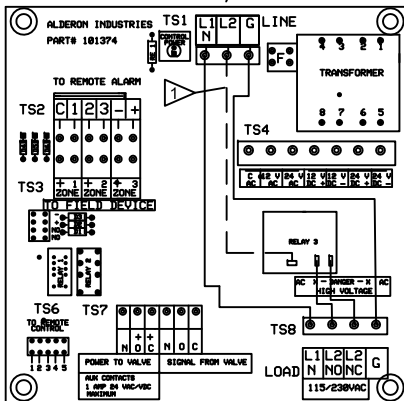
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Well Power Shut Down Flood Prevention Application

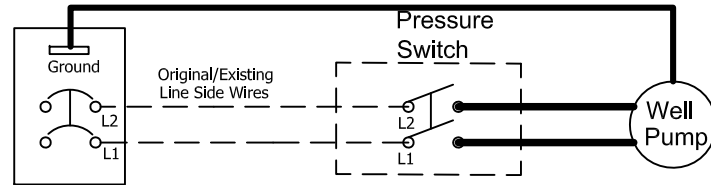
Use this Wiring Diagram when WaterPro Control Panel is Powered from a Separate Power Source from the Well Pump Power (Example: 120V for Panel, 230V for Well Pump)

See Page 8 for Power In Options (120 or 230V)



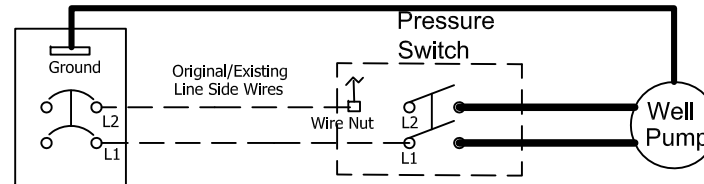
1. Remove factory installed wire from L2 on TS1 terminal strip and cut off fork terminal and restrip $\frac{1}{4}$ ". This wire will be connected to the "new" wire from step 2.

Circuit Breaker Panel/ Or Disconnect Switch

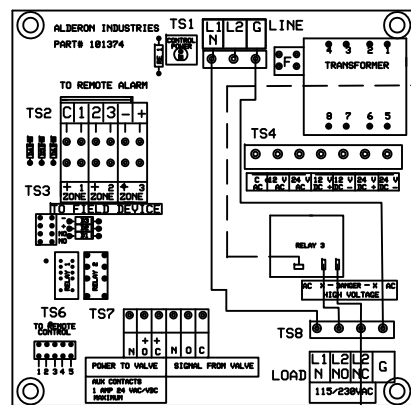


230 V, 15 Amps
Maximum

2. Disconnect line side wire "L2" from the pressure switch and wire nut "new" 12 AWG Wire to WaterPro Control Panel wire "prepped" from step 1.

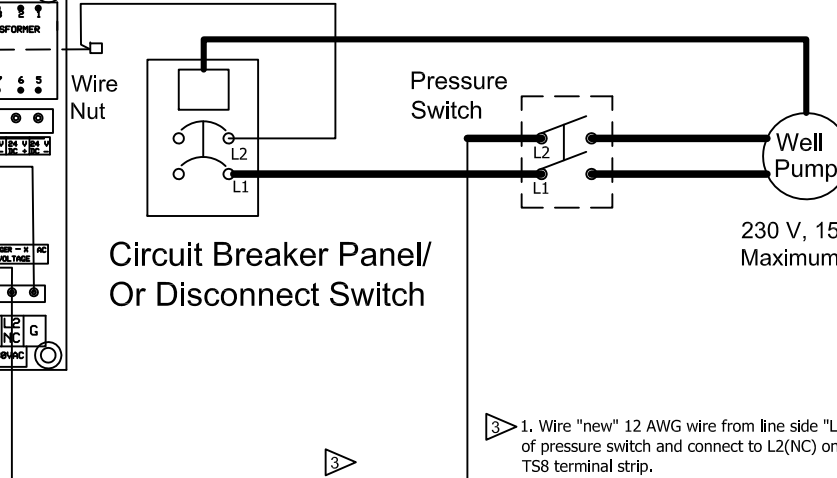


230 V, 15 Amps
Maximum



12 AWG Factory
Wires

Circuit Breaker Panel/ Or Disconnect Switch



230 V, 15 Amps
Maximum

3. Wire "new" 12 AWG wire from line side "L1" of pressure switch and connect to L2(NC) on TS8 terminal strip.

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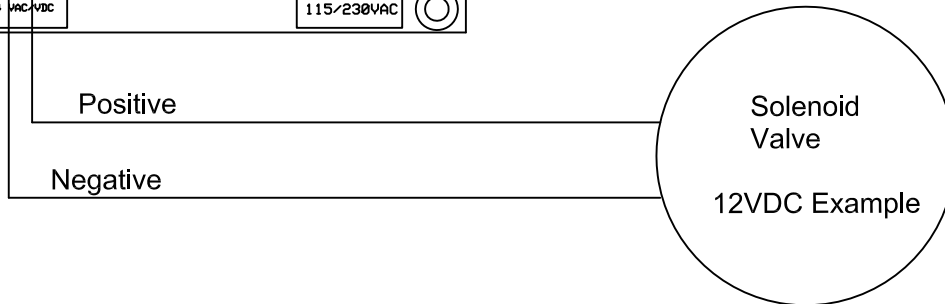
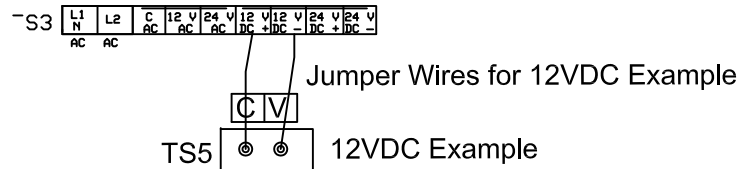
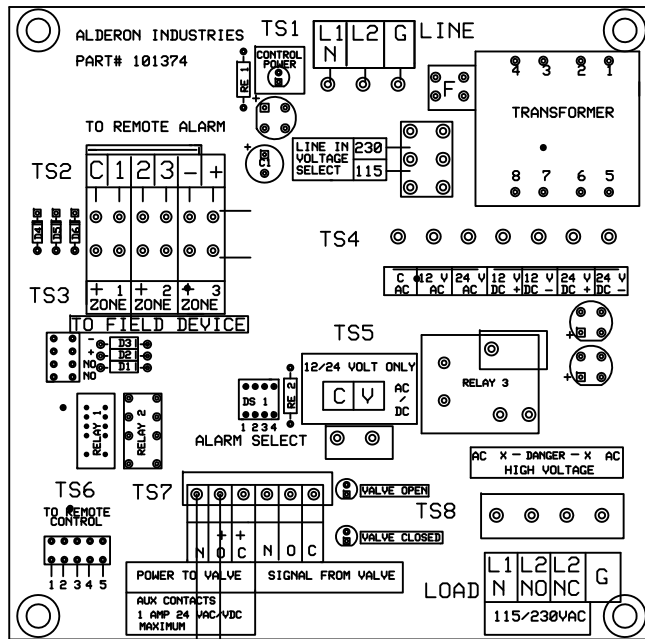
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Connecting Solenoid Valves

1. Using the Factory Jumper Wires on TS3, connect the voltage that matches the solenoid power/voltage to terminals C and V on TS5. TS3 has all the low voltages available to use - 12VAC, 12VDC, 24VAC, 24VDC.
2. Connect the solenoid valve to terminals N and O+ to Terminal Strip TS7. To energize the valve when the power relay is energized, wire to N and O+, To De-Energize the valve when the power relay is energized, wire to N and C+.

Note: When sensor is activated, the power relay and Low Voltage Relay will energize to activate or de-activate a solenoid valve.



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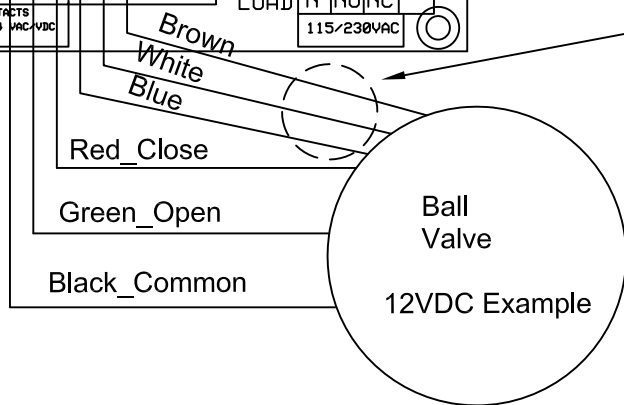
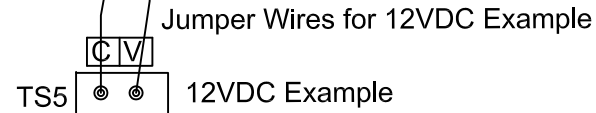
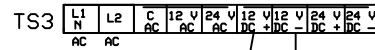
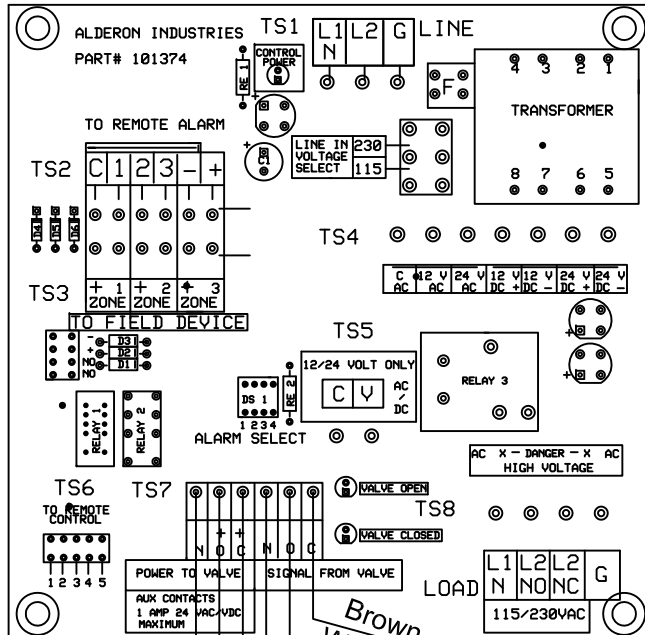
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Connecting Ball Valves

1. Using the Factory Jumper Wires on TS3, connect the voltage that matches the Ball Valve power/voltage to terminals C and V on TS5. TS3 has all the low voltages available to use - 12VAC, 12VDC, 24VAC, 24VDC.
2. Connect the Ball valve to terminals N and O+ and C+ to Terminal Strip TS7. For 12VDC WaterPro Valves, use the color coded wires and wire as shown in the example.

Note: When sensor is activated, the power relay will energize to close the valve. Reset and Open the valve by pressing the reset pushbutton on the front of the control panel.



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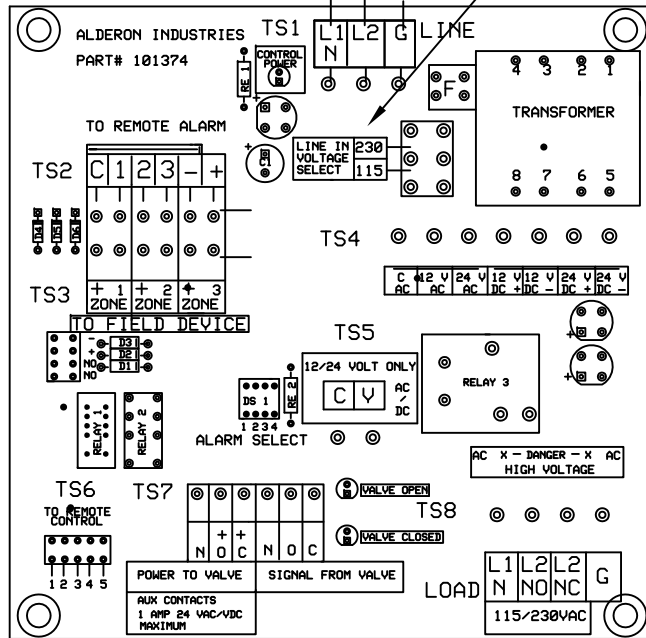
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Connecting Incoming Voltage

1. The Control Panel Requires 120 VAC or 230 VAC to Operate. Before Connecting power, slide the voltage selector switch to match incoming power, factory default is 120 VAC. Connect Incoming power to Terminal Strip TS1. On 120 VAC systems, connect Neutral to the "N" terminal, and the "hot leg" to L2 and Ground to "G"

120VAC
Example
N L G

Selector to 115



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