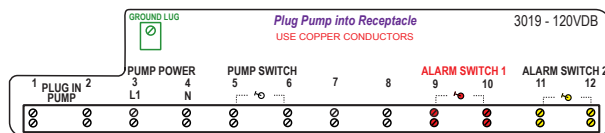


# Exterior Pump Control with Interior Alarm & Event Counter

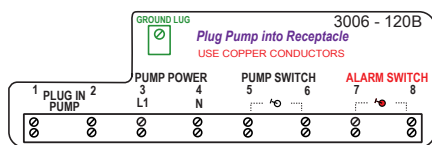
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|--|---|
| <p>⚠ Do not use in Hazardous Locations</p> <p>⚠ Disconnect power before product installation or maintenance.</p> <p>⚠ Only switches listed for use with septic systems may be connected.</p> | <p>⚠ Pump Power and Alarm Power must be on separate circuit breakers.</p> <p>⚠ Install this product in accordance with National Electrical Codes, Plumbing Regulations and Local Codes.</p> |
|--|---|

## INSTALLATION GUIDE

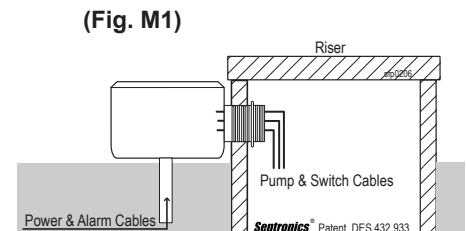
1. Run pump power line (12-2 or larger) with ground from building circuit breaker to the Junction Box.
2. Run two low voltage lines (or one 4-wire line) for alarm system from building to pedestal.
3. Cut a length of conduit and connect to bottom molded opening on bottom of Junction Box. Draw power & low voltage lines up through 1" conduit connected to bottom of Junction Box.
4. Insert the pipe nipple through riser using locknuts provided. **(Fig M1)**
5. Draw pump switch cord, alarm switch cords and pump cord through pipe nipple and up into junction box.
6. Attach pump power line to screws 3 and 4. (120V: L1 – Hot, N – Neutral) (240V: L1 – Hot, L2 – Hot) **(Fig. PMDB)**
7. Attach bare ground wire to ground lug.
8. [Single Alarm] Attach Alarm Switch to screws 7 and 8. Attach low voltage line from building to screws 7 and 8. **(Fig. MB)**
9. [Dual Alarm] Alarm Switch 1: Attach switch wires to screws 9 and 10. Attach low voltage line from building to screws 9 & 10.
10. [Dual Alarm] Alarm Switch 2: Attach switch to screws 11 and 12. Attach low voltage line from building to screws 11 & 12.
11. Pump Switch: Attach switch wires to screws 5 and 6. **Plug pump into receptacle.**
12. Secure rubber cord seal around pump, pump switch & alarm switch cords. Press cord seal into the large hole in junction box.
13. Seal around power line and alarm lines.
14. Install TM in convenient indoor location. Connect low voltage wires to TM by crimping supplied disconnects to wires and slip onto matching prongs on underside of enclosure.
15. Plug TM into 120V receptacle that does not share pump circuit breaker.
16. Turn on power to pump chamber from the circuit breakers at the power source.
17. Test alarms by lifting alarm switch floats. Alarm will sound.
18. Test pump by lifting pump switch. Pump will run.
19. Write your company name, your name, and phone number inside panel door.
20. Leave warranty information, TM instruction sheet with owner for proper usage, specifications.



**(Fig. PMDB)**



**(Fig. MB)**



**(Fig. M1)**

## TROUBLESHOOTING TIPS

TROUBLE	PROBABLE CAUSE	REMEDY
No power in junction box receptacle	<ol style="list-style-type: none"> <li>1. Circuit breaker is tripped.</li> <li>2. Loose wires on terminal strip.</li> <li>3. Loose wires on receptacle back.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset circuit breaker.</li> <li>2. Check wires on screws 3 &amp; 4.</li> <li>3. Replace receptacle.</li> </ol>
Circuit breaker trips frequently	<ol style="list-style-type: none"> <li>1. Moisture is shorting out power line.</li> <li>2. Weak circuit breaker.</li> </ol>	<ol style="list-style-type: none"> <li>1. Find short &amp; seal out moisture.</li> <li>2. Replace circuit breaker.</li> </ol>
Pump does not operate	<ol style="list-style-type: none"> <li>1. Defective pump or pump switch.</li> </ol>	<ol style="list-style-type: none"> <li>1. Unplug pump &amp; switch. Plug pump into outlet. If pump runs, the switch is defective. If pump does not run, pump is defective.</li> </ol>
Moisture or corrosion in enclosure	<ol style="list-style-type: none"> <li>1. Gas tight cord seals not installed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Secure seals firmly around cords.</li> </ol>

Note:

A small volt meter with a continuity check feature will be helpful in finding probable causes.