

Power Post™ 1-Zone Septic Alarm

WiFi, Model: VZW-02 | Rated Type 1 (Indoor), Alarm Panel



Leading Edge Control Products

Operation, Maintenance, and Installation Manual



Introduction



Before proceeding with the installation or operation of the product, make sure to read all instructions thoroughly, as well as complying with all Federal, State and Local Codes, Regulations and Practices. The 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.

Safety Guidelines

1. DISCONNECT ALL ELECTRICAL SERVICE BEFORE WORKING ON OR HANDLING THE PRODUCT.
2. DO NOT USE WITH FLAMMABLE OR EXPLOSIVE FLUIDS SUCH AS GASOLINE, FUEL OIL, KEROSENE, ETC. DO NOT USE IN EXPLOSIVE ATMOSPHERES.
3. ALARM PANEL MUST BE MOUNTED INDOORS. FOR OUTDOOR APPLICATIONS, CONSULT FACTORY.

Specifications

Primary Power
120VAC, 50/60 Hz

Circuit Board Primary Power
11.1VDC, 500mA maximum

Circuit Board Secondary Power
4.5VDC, (3) standard AA batteries
(battery backup; not included)

Field Connection Sensor
3-10VAC/DC, 10mA minimum
(signaling device)

Auxiliary Contacts
30VDC, 700mA maximum (each)
Normally Open

LEDs
Green (power), Red (alarm),
and Blue (Vizzy/WiFi)

Buzzer
85 dB @ 10-feet

Wall-Mounted Power Supply
120VAC, 50/60 Hz (input)
11.1VDC, 500mA maximum (output)
(6-foot cord)

Enclosure
Thermoplastic
5 x 4 x 1.3 (inches)
Type 1, Indoor
Removable cover

Certifications
CSA (US and Canada)
FCC Part 15 (US and Canada)

Three-Year Limited Warranty

Description of Operation

The Power Post™ 1-Zone WiFi Septic Alarm is an indoor rated alarm panel, powered by a standard 120VAC wall outlet. The green power LED will illuminate (solid) when powered. The Power Post™ septic alarm panel can only be used with and connected to an Alderon™ Power Post™ pump connection or monitoring system for remote alarm notification. Connect and register your wireless device to the Alderon™ cloud based Vizzy.Site™ to begin monitoring and receiving text and email alerts for system conditions.

The alarm panel is equipped with audible and visual alarm indication, activated by the Power Post™ system auxiliary contacts, alarm sensor(s), and/or the low battery alarm detection. Installing (3) AA batteries (not included) provides battery backup during power outages. Use the auxiliary contacts on the Power Post™ septic alarm panel to connect to building automation systems (BAS) and phone dialers. Multiple sensors (signaling device) can be connected for expanded monitoring.

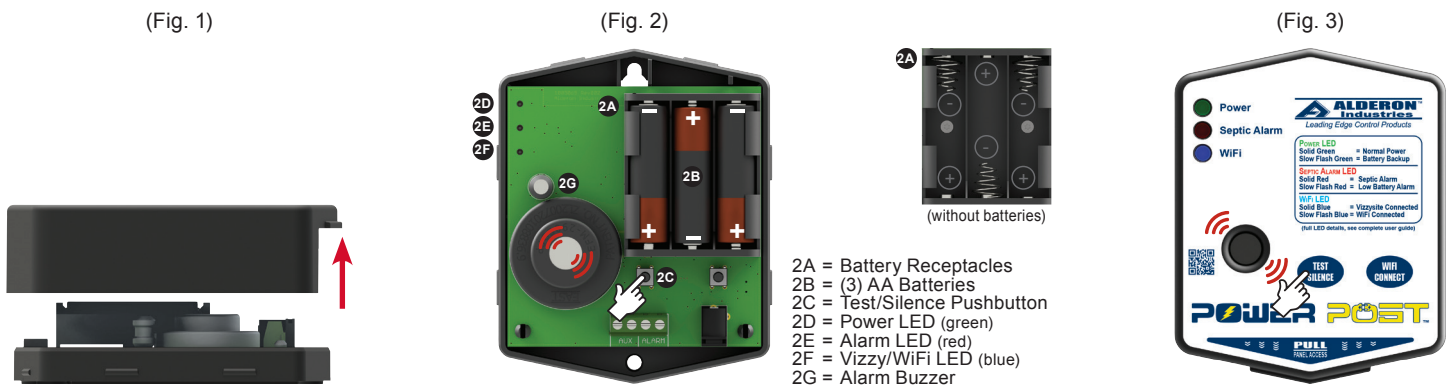
An alarm condition occurs when the Power Post™ system auxiliary contacts or alarm sensor(s) are activated, during which the Power Post™ septic alarm panel red alarm LED will illuminate (solid), buzzer will annunciate (solid), and the auxiliary contacts will activate. The alarm condition of the Power Post™ septic alarm panel will stay on until the Power Post™ system auxiliary contacts or alarm sensor(s) are deactivated. If the test/silence pushbutton is pressed during an alarm condition, it will silence the buzzer while the alarm LED remains on (solid) with activated auxiliary contacts (alarm LED slow flash). The silence condition will reset when the Power Post™ system auxiliary contacts or alarm sensor(s) are deactivated and the Power Post™ septic alarm panel will auto reset for the next alarm cycle.

Installation of the Alarm Panel

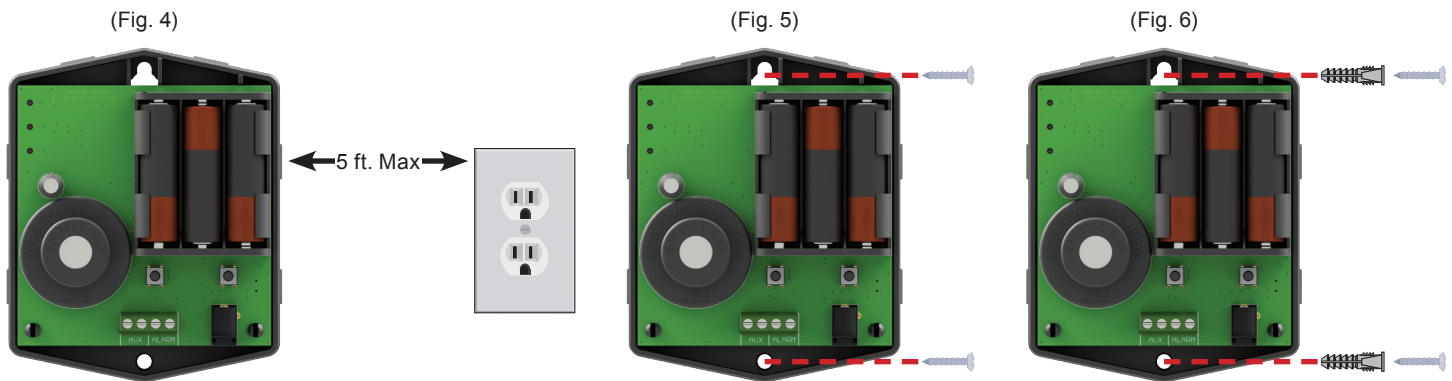
1. To install/replace the batteries for the backup power feature, remove the enclosure cover (Fig. 1) and install one (1) AA battery into each of the battery receptacles of the alarm panel (3 total / Fig. 2). Make sure to have the proper orientation of the positive (+) and negative (-) terminals of each battery to ensure a secure connection. After installing the batteries, the green power LED should illuminate (slow flash). To perform a quick test, press and hold the test/silence pushbutton (Fig. 2 and Fig. 3) to activate the alarm. If properly installed, all of the LEDs should illuminate (quick flash) and then after approximately 5-6 seconds, the buzzer should announce (quick pulse). Immediately release the test/silence pushbutton after the buzzer announces a quick pulse tone to end the test. Leave the enclosure cover off until both step 3 and step 4 are completed for sensor and auxiliary contact wiring.

CAUTION: Holding the test/silence pushbutton for longer than 5-6 seconds along with the buzzer quick pulse tone will change the low battery alarm enable or disable setting (approximately 9-10 seconds; total elapsed time). See complete user guide for settings information and page 4 to test auxiliary contacts separately.

WARNING: Do not connect AC power from a standard wall outlet or receptacle to the alarm panel until all steps of the installation are complete and the system is ready for testing.



2. Determine the mounting location for the alarm panel and leave the enclosure cover off. Make sure power outlet (120VAC, 50/60 Hz) is within 5-feet of the alarm panel (Fig. 4). The power outlet should be on a separate circuit breaker from any other device and not on a switched receptacle to maintain system integrity. Mount the alarm panel using two (2) #6 self-tapping screws (not included / Fig. 5). Use two (2) #8 plastic anchors (not included / Fig. 6) if mounting the alarm panel to sheet rock.



Installation of the Alarm Panel (continued)

- If connecting to an existing alarm security system or building automation system (BAS), use 18 gauge 2-conductor wire to connect the existing product to the AUX inputs on the Power Post™ septic alarm panel terminal block (Fig. 7). See below for wiring information. The auxiliary contacts on the Power Post™ septic alarm panel are activated when the Power Post™ system auxiliary contacts or alarm sensor(s) are activated. When connected, run the wire(s) towards the bottom/center of the alarm panel to go through the wiring access hole once the enclosure cover is replaced (Fig. 8 and Fig. 9).
- Use 18 gauge 2-conductor wire to connect the Power Post™ system auxiliary contacts or alarm sensor(s) to the ALARM inputs on the Power Post™ septic alarm panel terminal block (Fig. 7). See below for wiring information. The Power Post™ septic alarm panel is activated when the Power Post™ system auxiliary contacts or alarm sensor(s) are activated. When connected, run the wire(s) towards the bottom/center of the alarm panel to go through the wiring access hole once the enclosure cover is replaced (Fig. 8 and Fig. 9).

Note: When connecting to an Alderon™ Power Post™ pump connection or monitoring system, always refer to its installation instructions for complete operating information.

CAUTION: Route all wires away from sharp objects and internal components when installing wires.

Auxiliary Contacts:

Terminals AUX

Connects to external monitoring device

Normally Open Dry Contacts

Normally open dry contacts can switch 30VDC, 700mA maximum (each)

Note: The auxiliary dry contacts of the alarm panel are normally open ONLY, recommended to use 18 gauge 2-conductor wire. Used for remote monitoring.

Sensor/Signaling Device:

Terminals ALARM

Zone-1 Alarm

Normally Open or Normally Closed

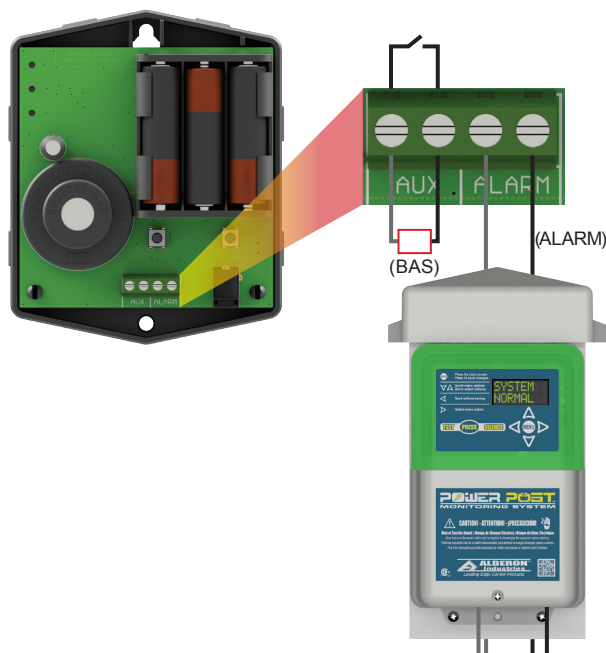
Must use "Passive" Sensors (no circuitry)

Wiring Inputs are Reversible

3-10VAC/DC, 10mA minimum

Note: Use normally open sensors (signaling device) for high level alarm indication and normally closed sensors (signaling device) for low level alarm indication.

(Fig. 7)



- After the wiring is completed and before replacing the enclosure cover, run the wire(s) towards the bottom/center of the alarm panel to go through the wiring access hole once the enclosure cover is replaced (Fig. 8 and Fig. 9).

CAUTION: Route all wires away from sharp objects and internal components when installing wires.

(Fig. 8)



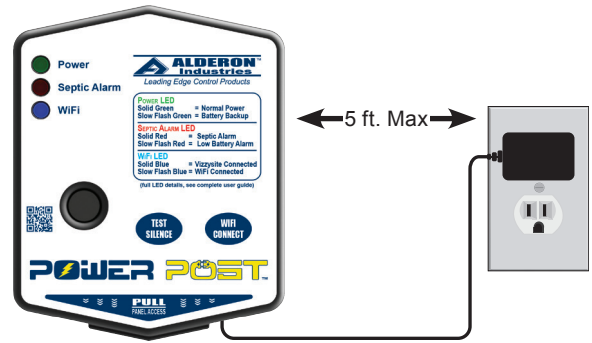
(Fig. 9)



Installation of the Alarm Panel (continued)

6. Plug the alarm panel power supply into a standard wall outlet or receptacle (120VAC, 50/60 Hz), and then plug the quick connect of the power supply cord into the incoming power receptacle of the alarm panel. The green power LED should illuminate (solid) when powered (Fig. 10).

(Fig. 10)



Testing the Alarm Panel

1a. Test the alarm panel by pressing and holding the test/silence pushbutton (Fig. 11). If properly installed, all of the LEDs should illuminate (quick flash) and then after approximately 5-6 seconds, the buzzer should announce (quick pulse). Immediately release the test/silence pushbutton after the buzzer announces a quick pulse tone to end the test. After the test/silence pushbutton is released, the alarm panel will auto reset for the next alarm cycle. Test product weekly to ensure system integrity.

(Fig. 11)



CAUTION: Holding the test/silence pushbutton for longer than 5-6 seconds along with the buzzer quick pulse tone will change the low battery alarm enable or disable setting (approximately 9-10 seconds; total elapsed time). See complete user guide for settings information and step 1c below to test auxiliary contacts separately.

1b. Test the alarm panel by activating the Power Post™ system auxiliary contacts, alarm sensor(s) (Fig. 12), or follow the testing steps of the Power Post™ system instructions. The Power Post™ septic alarm panel alarm LED should illuminate (solid), buzzer should announce (solid), and auxiliary contacts should activate. Press the test/silence pushbutton and the buzzer should silence while the alarm LED remains on (solid) with activated auxiliary contacts (alarm LED slow flash). After the Power Post™ system auxiliary contacts, alarm sensor(s), or testing procedure are deactivated, the Power Post™ septic alarm panel will auto reset for the next alarm cycle. Test product weekly to ensure system integrity.

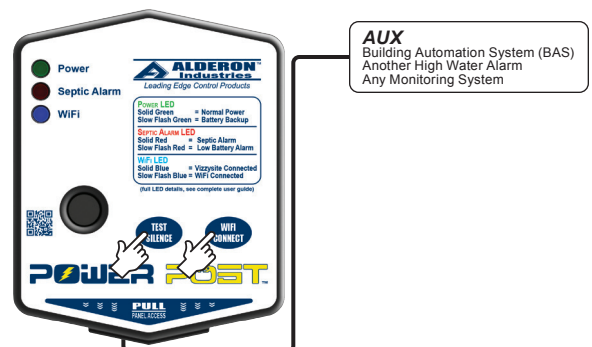
(Fig. 12)



Note: If multiple sensors are used, perform a test for each sensor connected to the alarm panel to ensure complete system operation.

1c. Test the auxiliary contacts by pressing and holding the test/silence pushbutton immediately followed by pressing and holding the WiFi/connect pushbutton (Fig. 13). The auxiliary contacts connected to the AUX inputs on the terminal block should activate (alarm LED slow flash). When the WiFi/connect pushbutton is released, the auxiliary contacts connected to the AUX inputs on the terminal block should deactivate.

(Fig. 13)



Note: Once the test/silence pushbutton is released, it will exit the auxiliary contacts testing mode.

Connecting the Alarm Panel to WiFi Network

Once all the steps of the wiring, installation, and testing are completed, the alarm panel is ready to be connected and registered to the Alderon™ cloud based Vizzy.Site™ to begin monitoring and receiving text and email alerts for system conditions. Choose your preferred method of connecting the alarm panel to a WiFi network, either WPS or HTTP. See below for instructions on how to setup the network connection and an example of connecting using a mobile phone (step 1b).

1a. WPS Mode:

Press and hold the WiFi/connect pushbutton for more than 5-seconds or until the blue WiFi LED flashes slowly (Fig. 14). Then, release the WiFi/connect pushbutton and press the WPS button on the router to pair the device with an IP address.

Note: Once the alarm panel has been placed into the WPS mode, there is approximately 2-minutes to establish a connection with the router before the WPS settings mode times out. After the connection has been established and the WiFi LED turns solid (Fig. 18), skip to page 6 step 1 if using a WPS connection to register the device.

1b. HTTP Mode:

Press and hold the WiFi/connect pushbutton for less than 5-seconds or until the blue WiFi LED flashes quickly (Fig. 15). Then, release the WiFi/connect pushbutton and use a mobile phone, laptop, or computer that is within range of the alarm panel to pair the device with an IP address.

Note: Once the alarm panel has been placed into the HTTP mode, there is approximately 2-minutes to establish a connection with the preferred electronic device before the HTTP settings mode times out. See connection example below.

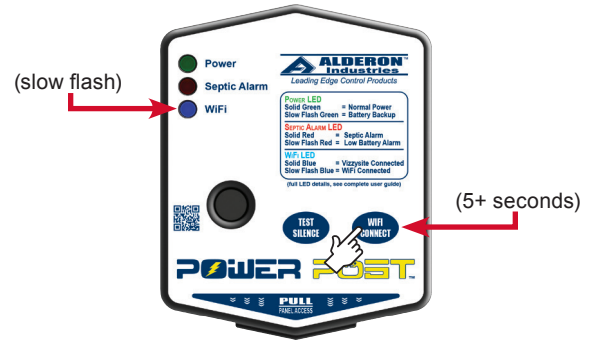
Switch Mode Type: If you are in either WPS or HTTP mode and wish to cancel the current settings mode, press the WiFi/connect pushbutton for approximately 1-second to start over. The alarm panel default setting for a canceled connection function is HTTP mode (less than 5-second press and hold), with the blue WiFi LED flashing quickly (Fig. 15).

Connection Example with Mobile Phone:

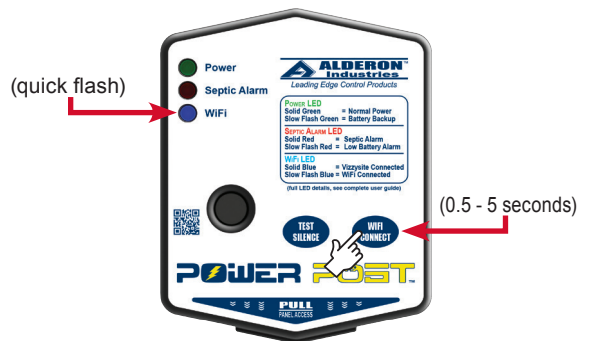
Prior to registering the device (page 6 step 1) using HTTP mode, you must first connect the alarm panel. Once the alarm panel has been placed into HTTP settings mode with the blue WiFi LED flashing quickly (Fig. 15):

- i. Go into the mobile phone settings, click/tap on WiFi network
- ii. Locate the Vizzy™ device (Power Post™) model with ID, then click/tap to sign-in (Fig. 16)
- iii. The available networks should display on the Vizzy.Site™ web page, click/tap on preferred network (Fig. 17)
- iv. Enter the network name and password, then click/tap the Connect button to connect the Vizzy™ device (Power Post™) to the preferred network (Fig. 17)
- v. The blue WiFi LED should switch from a quick flash (Fig. 15) to solid, indicating the Vizzy™ device (Power Post™) is connected to an IP address (Fig. 18)

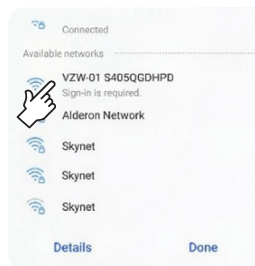
(Fig. 14)



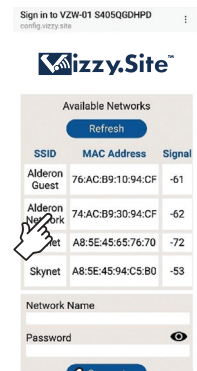
(Fig. 15)



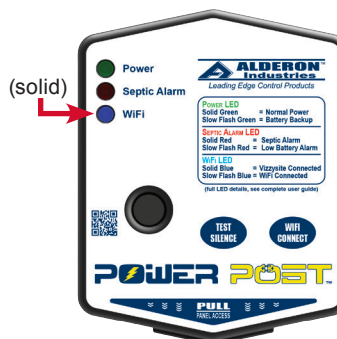
(Fig. 16)



(Fig. 17)



(Fig. 18)



Registering the Alarm Panel to Vizzy.Site™

1. Select a preferred web browser on the mobile phone, laptop, or computer used to establish an IP address with the alarm panel and log into: <https://portal.vizzy.site> (Fig. 19). To set up an account, click/tap “Don’t have an account?” on the log-in screen to create your username and password. If you already have an account, enter your username and password. Once your information has been entered, click/tap the Login button.

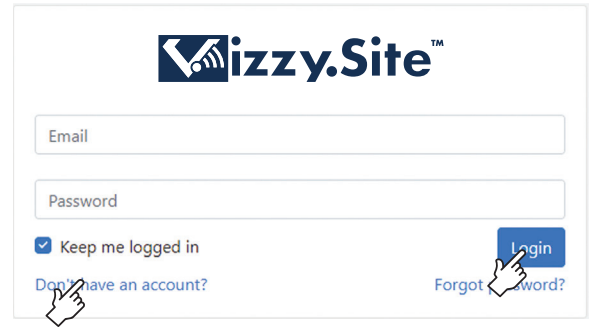
IMPORTANT: The email and mobile phone number that are used to create the account will be where the alarm notifications are sent by default. Additional emails and mobile phone numbers can be added by the account owner.

2. If you are a new user, you will be automatically directed to the device registration page once signed-in to the account. If you already have an account with one (1) or more devices, click/tap “Register New Device” for additional devices. Enter your Vizzy™ ID (VID) number (Power Post™) which is located on the inside cover of the alarm panel enclosure (Fig. 20). After entering your VID number, click/tap the Register button to finish the registration process.

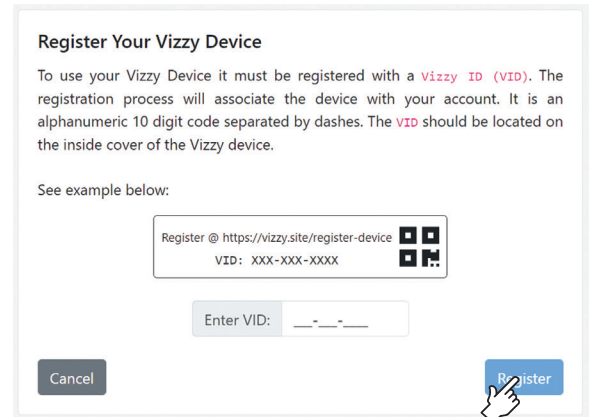
3. Before you can complete the registration process, you will first be prompted to press the test/silence pushbutton on the alarm panel to send a test message to the server (Fig. 21). Press the test/silence pushbutton and await the “Success - You may now complete the registration” text to appear on the screen with a green check mark symbol. Once the success message is received, click/tap the Complete Registration button (Fig. 22).

4. After you have clicked/tapped on the Complete Registration button (Fig. 22), you have successfully connected the Vizzy™ device (Power Post™) to WiFi and registered the Vizzy™ device to the Alderon™ cloud based Vizzy.Site™ to begin monitoring system conditions.

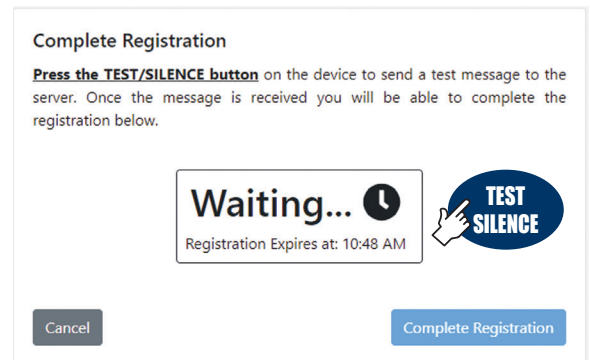
(Fig. 19)



(Fig. 20)



(Fig. 21)



(Fig. 22)

