

# Vizyalarm™ 3-Zone Alarm

WiFi, Model: VZW-01 | 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 (NFPA 70). Failure to properly install and test 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**  
3.7VDC, 1800mAh (battery backup)  
LiPo battery, model LP683857

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

**Auxiliary Contacts**  
30VDC, 700mA maximum  
Normally Open; Single Pole, Single Throw

**LEDs**  
Green (power), Red (alarms),  
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)

**Temperature Alarm (detection range)**  
-40°C/-40°F to 46°C/115°F

**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 Vizyalarm™ 3-Zone WiFi Alarm is an indoor rated alarm panel, powered by a standard 120VAC wall outlet. The green power LED will illuminate (solid) when powered. The Vizyalarm™ is a multipurpose alarm panel that can be used for a variety of applications, including but not limited to: septic tanks, sumps, holding tanks, pump chambers, water tanks, flow, pressure, condensate, temperature, and any others where a “dry” contact can be connected to the alarm panel. 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 a normally open or normally closed sensor wired to the terminals and/or the built-in temperature alarm detection. A variety of sensors can be used such as a float switch, pressure switch, or any “dry” type sensor that “closes” during an alarm condition (normally open or normally closed). The included 3.7VDC LiPo rechargeable battery (not installed) provides battery backup during power outages. Use the auxiliary contacts 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 sensor (signaling device) contact for zone-1, zone-2, and/or zone-3 is activated, during which the red alarm LED(s) will illuminate (solid), buzzer will annunciate (solid), and the auxiliary contacts will activate. The alarm condition will stay on until the sensor for the zone(s) activated 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) for each zone silenced. The silence condition will reset when the sensor for zone-1, zone-2, and/or zone-3 deactivates and the alarm panel will auto reset for the next alarm cycle.

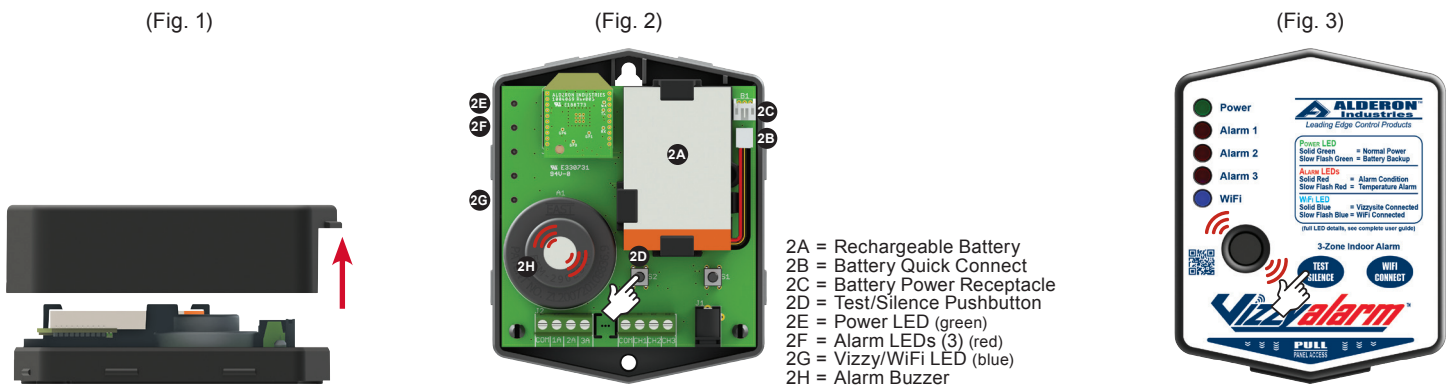
Note: If zone-1 is in an alarm condition and the buzzer is silenced, and then zone-2 and/or zone-3 goes into an alarm condition, the buzzer will reactivate until the test/silence pushbutton is pressed to acknowledge that a new alarm condition has occurred.

## Installation of the Alarm Panel

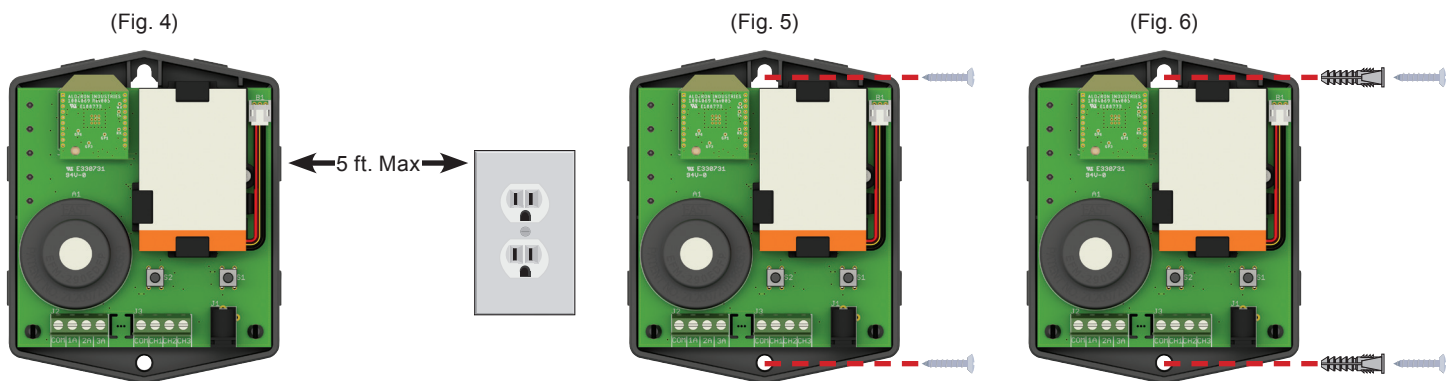
1. To install/replace the included LiPo battery for the backup power feature, remove the enclosure cover (Fig. 1) and install the 3.7VDC LiPo battery (model LP683857) by plugging the quick connect of the battery wires into the battery power receptacle of the alarm panel (Fig. 2). Make sure to have the proper orientation of the quick connect (notch up, pins down) to ensure a secure connection. After installing the battery, 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 annunciate (quick pulse). Immediately release the test/silence pushbutton after the buzzer annunciates 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 temperature 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 auxiliary contact inputs on the terminal block (Fig. 7). See below for wiring information. The zone-1, zone-2, and/or zone-3 auxiliary contacts are activated when the sensor (signaling device) contacts are “closed” during an alarm condition (normally open or normally closed). 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. 9 and Fig. 10).
- Connect the sensor (signaling device) to the sensor/signaling device inputs on the terminal block (Fig. 8). See below for wiring information. The zone-1, zone-2, and/or zone-3 alarms are activated when any “dry” type sensor that “closes” during an alarm condition (normally open or normally closed). 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. 9 and Fig. 10).

Note: When installing a sensor or device, 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:

#### Zone-1 (1A)

One wire to Terminal COM (common)  
One wire to Terminal 1A

#### Zone-2 (2A)

One wire to Terminal COM (common)  
One wire to Terminal 2A

#### Zone-3 (3A)

One wire to Terminal COM (common)  
One wire to Terminal 3A

*30VDC, 700mA maximum, Normally Open; Single Pole, Single Throw*

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:

#### Zone-1 (CH1)

One wire to Terminal COM (common)  
One wire to Terminal CH1

#### Zone-2 (CH2)

One wire to Terminal COM (common)  
One wire to Terminal CH2

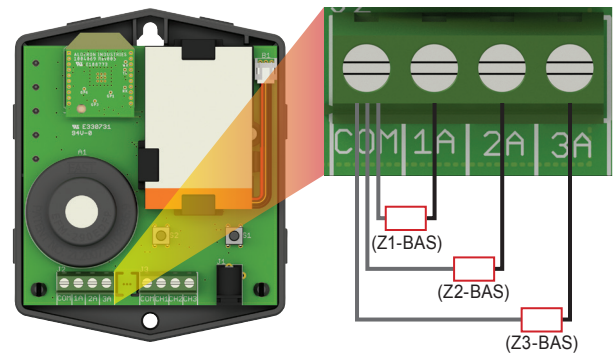
#### Zone-3 (CH3)

One wire to Terminal COM (common)  
One wire to Terminal CH3

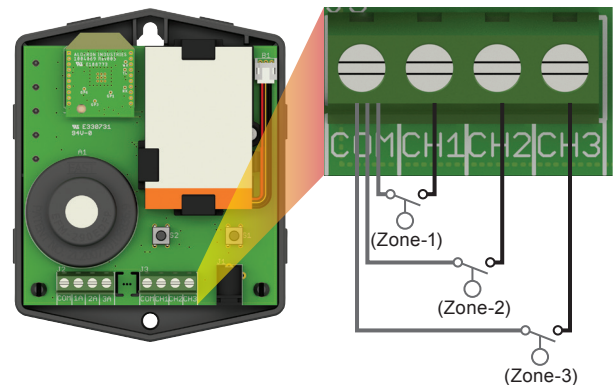
*3-10VAC/DC, 10mA minimum, Normally Open or Normally Closed*

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; auxiliary contacts)



(Fig. 8; sensor/signaling device)



- 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. 9 and Fig. 10).

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

(Fig. 9)

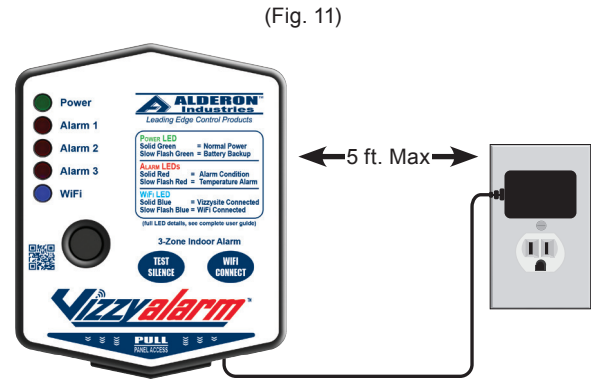


(Fig. 10)



## 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. 11).



## Testing the Alarm Panel

1a. Test the alarm panel by pressing and holding the test/silence pushbutton (Fig. 12). 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.

**CAUTION:** Holding the test/silence pushbutton for longer than 5-6 seconds along with the buzzer quick pulse tone will change the temperature 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 sensor (signaling device) (Fig. 13). The alarm LED should illuminate (solid), buzzer should announce (solid), and auxiliary contacts should activate for the zone in which the sensor is connected to. 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) for each zone silenced. After the sensor is deactivated, the alarm panel will auto reset for the next alarm cycle. Test product weekly to ensure system integrity.

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. 14). The auxiliary contacts for all zones connected to the auxiliary terminal block should activate (alarm LED slow flash). When the WiFi/connect pushbutton is released, the auxiliary contacts for all zones connected to the auxiliary terminal block should deactivate.

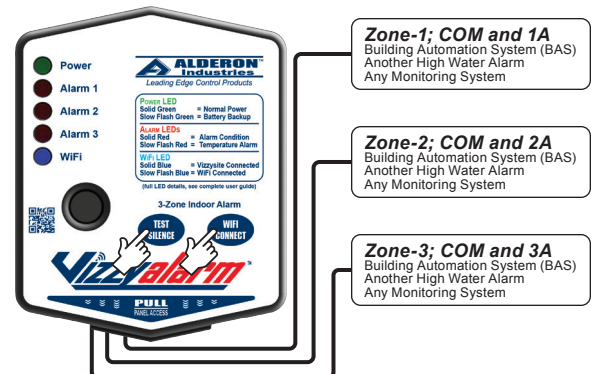
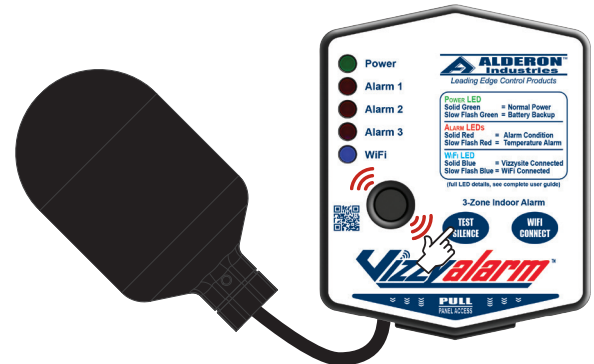
Note: Once the test/silence pushbutton is released, it will exit the auxiliary contacts testing mode.

(Fig. 11)

(Fig. 12)

(Fig. 13)

(Fig. 14)



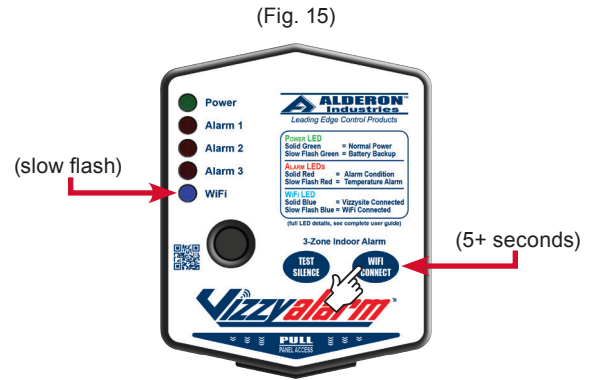
## Connecting the Alarm Panel to WiFi Network

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. 15). Then, release the WiFi/connect pushbutton and press the WPS button on the router to pair the device with an IP address.

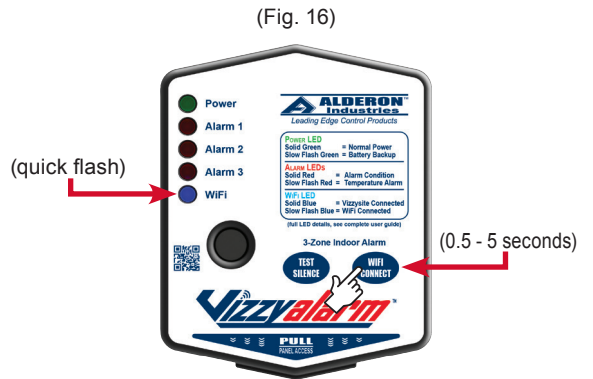
Note: Once the alarm panel has been placed into the WPS mode, there is approximately 2-minutes to establish a connection with the router before the WPS settings mode times out. After the connection has been established and the WiFi LED turns solid (Fig. 19), skip to page 6 step 1 if using a WPS connection 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. 16). 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.

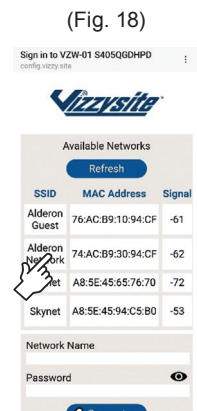
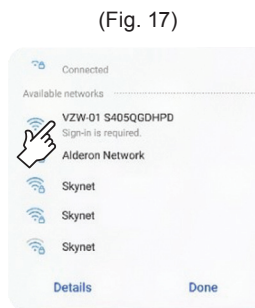


**Switch Mode Type:** If you are in either WPS or HTTP mode and wish to cancel the current settings mode, press the WiFi/connect pushbutton for approximately 1-second to start over. The alarm panel default setting for a canceled connection function is HTTP mode (less than 5-second press and hold), with the blue WiFi LED flashing quickly (Fig. 16).

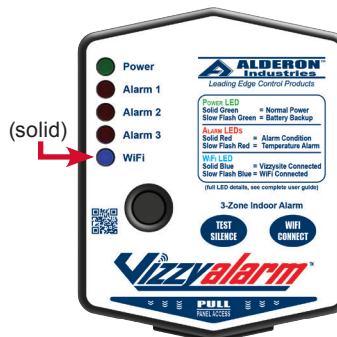
### Connection Example with Mobile Phone:

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. 16):

- Go into the mobile phone settings, click/tap on WiFi network
- Locate the Vizzy™ device model with ID, then click/tap to sign-in (Fig. 17)
- The available networks should display on the Vizzy.site™ web page, click/tap on preferred network (Fig. 18)
- Enter the network name and password, then click/tap the Connect button to connect the Vizzy™ device to the preferred network (Fig. 18)
- The blue WiFi LED should switch from a quick flash (Fig. 16) to solid, indicating the Vizzy™ device is connected to an IP address (Fig. 19)



(Fig. 19)



## Registering the Alarm Panel to Vizy.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.vizy.site> (Fig. 20). 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.

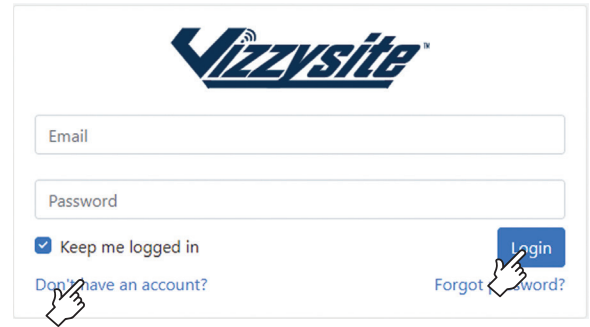
**IMPORTANT:** The email and mobile phone number that are used to create the account will be where the alarm notifications are sent by default. Additional emails and mobile phone numbers can be added by the account owner.

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 Vizy™ ID (VID) number which is located on the inside cover of the alarm panel enclosure (Fig. 21). After entering your VID number, click/tap the Register button to finish the registration process.

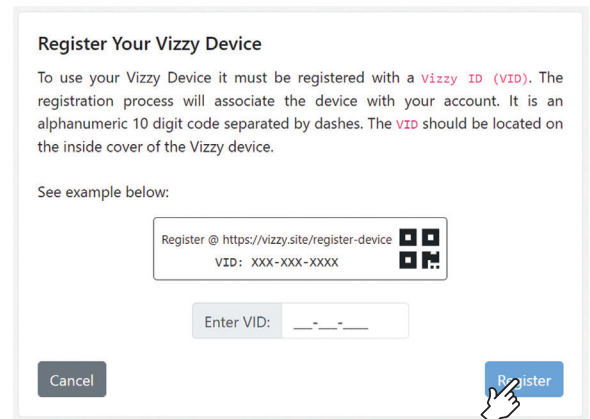
3. Before you can complete the registration process, you will first be prompted to press the test/silence pushbutton on the alarm panel to send a test message to the server (Fig. 22). Press the test/silence pushbutton and await the “Success - You may now complete the registration” text to appear on the screen with a green check mark symbol. Once the success message is received, click/tap the Complete Registration button (Fig. 23).

4. After you have clicked/tapped on the Complete Registration button (Fig. 23), you have successfully connected the Vizy™ device to WiFi and registered the Vizy™ device to the Alderon™ cloud based Vizy.site™ to begin monitoring system conditions.

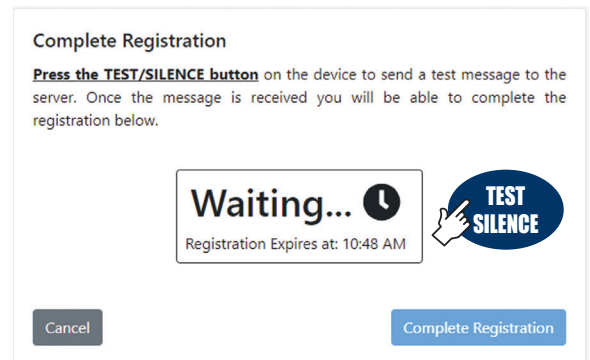
(Fig. 20)



(Fig. 21)



(Fig. 22)



(Fig. 23)

