

# VersAlarm™ I/O

Indoor/Outdoor Alarm Panel | Type 3R Enclosure

Models: VLIO-01, VLIO-02, VLIO-03, VLIO-04, VLIO-05, and VLIO-06



(alarm panel only model shown)



## QUICK START GUIDE

CSC00001\_Rev05\_VLIO-01 - VLIO-06\_VersAlarm I/O Series | January 17, 2024 2:01 PM

## Safety Guidelines



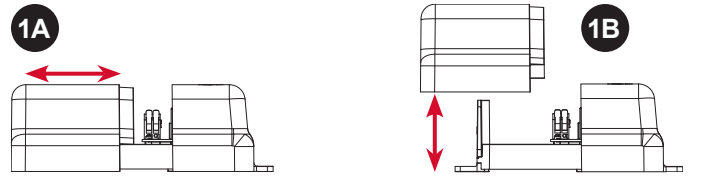
# WARNING

Before proceeding with the installation or operation of this product, read all instructions thoroughly, as well as complying with all federal, state and local codes, regulations, and practices. This 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.

1. DISCONNECT POWER when installing or servicing the product. Failure to disconnect all power sources could result in serious injury or death.
2. NEVER enter a flooded space without proper Personal Protective Equipment (PPE). Always wear dielectric rubber boots and other applicable protective equipment when water is on the floor and you must service an energized pump, alarm system, or product.
3. DO NOT enter the water if the water level is higher than that of the protection your PPE offers or if your PPE is not watertight.
4. DO NOT use or install this product with or near flammable liquids.
5. DO NOT use or install this product in locations classified as hazardous or in explosive atmospheres as defined by any applicable electrical safety code.

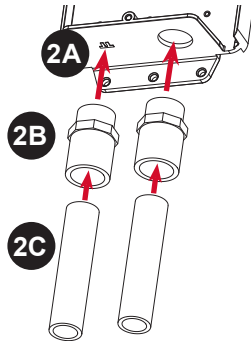
## Step 1: Remove / Install Bottom Cover

To remove cover, first remove the screw, then slide directly downward (1A) and then pull directly away (1B). To install cover, line up the bottom enclosure cover with grooves (1B), then slide directly upward (1A) until it meets the top of the enclosure and replace the screw.



## Step 2: Installing Conduit / Fittings\*

Using the pre-marked center hole locations (2A), mark and drill out on the bottom of the enclosure. The size(s) will depend on desired conduit fitting (maximum 0.75"). Place the conduit fitting (2B) in the drilled out hole and make sure it's secured. Then, install conduit (2C) into the fitting.



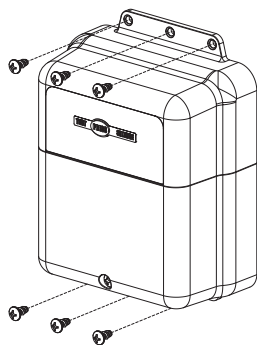
Note: Seal all conduits to prevent moisture and gases from entering the enclosure per local codes.

**CAUTION:** Nonmetallic enclosure does not provide proper grounding between conduit connections. Use grounding bushings and jumper wires.

(\* some models include pre-installed cable grips, power cable, and alarm float switch cable; see step 2.1 and step 2.2 on the back side of this document for enclosure connections)

## Step 3: Mount Enclosure

Determine the mounting location for the alarm panel. Hold the alarm up to the desired mounting location, mark the drill hole locations. Once marked, drill pilot holes for screws (not included) and use wall mount anchors (not included) if necessary. Place enclosure in the mounting location, adjust until the pilot holes are lined up with the enclosure and fasten screws to secure the alarm panel in place.



## Step 4: Installing Wire into WAGO

Before making wire connections and terminations, carefully read this step for proper functions of both types of WAGO connectors.

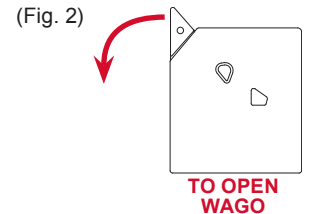
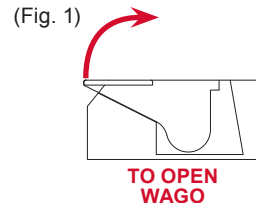
**WARNING:** Improper use of the connectors will cause damage. DO NOT use mechanical tools to open or close, hand usage only.

### Wire Termination - Splice Connector WAGO (Fig. 1):

- 1) Lift tab(s) upward.
- 2) Insert wire(s) into slot.
- 3) Press tab(s) downward.
- 4) Make sure wire(s) are secured.

### Wire Connection - Quick Snap Terminal WAGO (Fig. 2):

- 1) Press tab(s) outward. DO NOT open past 40° angle.
- 2) Insert wire(s) into slot.
- 3) Press tab(s) inward.
- 4) Make sure wire(s) are secured.



## Step 5: Wiring

The diagram below shows the three quick snap WAGO terminals on the alarm panel circuit board that consists of three pairs of connections.

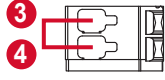
- 1) Install the sensor in terminals 1 and 2 (FLOAT IN).
- 2) Install an auxiliary device in terminals 3 and 4 (AUX OUT, optional).
- 3) Install incoming power in terminals 5 and 6 (AC IN), line 1 (L1) in terminal 5 and line 2/neutral (L2/N) in terminal 6.
- 4) NEVER leave ground wire exposed inside the panel, use provided WAGO connector for wire termination.

### SENSOR



FLOAT IN - TERMINALS  
Sensor Connections  
(signaling device / #1 and #2)

### AUXILIARY



AUX OUT - TERMINALS  
Auxiliary "Dry" Contacts  
(external device / #3 and #4)

### POWER



AC IN - TERMINALS  
Incoming Power Connections  
(L1-Line / #5 and L2/N-Neutral / #6)

## Step 6: Power Alarm and Quick Test

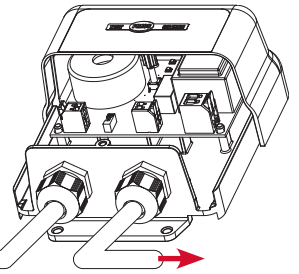
After all wiring and installation steps have been completed, verify the incoming voltage or receptacle matches the voltage of the model alarm panel, either 120VAC or 240VAC. Apply power to the alarm.

- 1) Press the test/silence pushbutton to activate an alarm test. The buzzer should annunciate and red alarm LEDs should illuminate (flashing).
- 2) Activate the sensor, the buzzer should annunciate and the red alarm LEDs should illuminate (flashing). Press the test/silence pushbutton during an alarm condition, the buzzer should silence and alarm LEDs should remain illuminated (solid). Deactivate the sensor and the alarm condition should reset.

## \*Step 2.1: Power Cable and Float Switch

Reference for models: VLIO-02 (120VAC) and VLIO-05 (240VAC)

These model alarms come with a pre-installed power cable (6ft), alarm float switch, and cable grips. Refer to instructions for alarm float switch to determine the alarm activation level and for proper installation. If using the auxiliary contacts, see step 5.



**CAUTION:** Do not connect power until installation/wiring is complete.

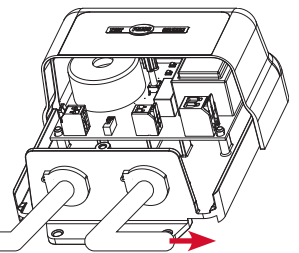
Mount alarm float switch at alarm activation level

Plug power cable into receptacle, either 120VAC or 240VAC

## \*Step 2.2: Power Cable and Float Switch

Reference for models: VLIO-03 (120VAC) and VLIO-06 (240VAC)

These model alarms come with a pre-installed power cable (6ft), alarm float switch, and snap fit strain reliefs. Refer to instructions for alarm float switch to determine the alarm activation level and for proper installation. If using the auxiliary contacts, see step 5.

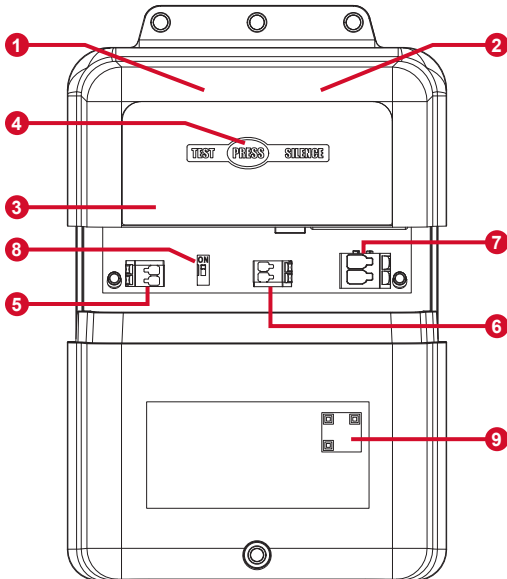


**CAUTION:** Do not connect power until installation/wiring is complete.

Mount alarm float switch at alarm activation level

Plug power cable into receptacle, either 120VAC or 240VAC

## VersAlarm™ I/O - Standard Features



- 1 **Power On Indicator** - Green LED illuminates enclosure cover
- 2 **Alarm Beacon** - Red LEDs illuminate enclosure cover
- 3 **Alarm Buzzer** - Annunciates to indicate an alarm condition (not shown/visible)
- 4 **Test/Silence Pushbutton** - Activates alarm, silences alarm buzzer
- 5 **Sensor Input** - Terminals for sensor connection
- 6 **Auxiliary Contacts** - Interface with external device, 24VDC, 500mA maximum (each)
- 7 **Incoming Power** - Terminals for line 1 (L1) and line 2/neutral (L2/N), 120/240VAC
- 8 **Power Indicator Turn On/Off** - Flip switch up/down to turn on/off green power LED
- 9 **QR Code** - Scan code for additional product information (alderonind.com)

## Included with Product

- Models: VLIO-01 and VLIO-04: (1) VersAlarm™ I/O alarm panel and (1) WAGO connector
- Models: VLIO-02 and VLIO-05: (1) VersAlarm™ I/O alarm panel; (2) Pre-installed cable grips; (1) Pre-installed, male, 120VAC or 240VAC, 6-foot power cable; (1) Pre-installed alarm float switch, (1) RubberLox™ pipe clamp, and (1) WAGO connector
- Models: VLIO-03 and VLIO-06: (1) VersAlarm™ I/O alarm panel; (2) Pre-installed snap fit strain reliefs; (1) Pre-installed, male, 120VAC or 240VAC, 6-foot power cable; (1) Pre-installed alarm float switch, (1) RubberLox™ pipe clamp, and (1) WAGO connector

## Customer Support

Online  
alderonind.com

Email  
info@alderonind.com

QR Code  
Scan code for full product details



## Specifications

### VersAlarm™ I/O

Primary Power: 120VAC or 240VAC, 50/60Hz  
Power: 2.64 Watts maximum (alarm condition)  
Certifications: FCC Part 15 (US/Canada), CSA (US/Canada)  
Auxiliary Contacts: Normally Open; can switch 24VDC, 500mA maximum (each)  
Enclosure: Outdoor, rated Type 3R

**FCC Part 15:** NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: increase the separation between the equipment and receiver, connect the equipment into an outlet on a circuit different from that to which the receiver is connected, consult the dealer or an experienced radio/TV technician for help. Caution: changes / modifications not approved by Alderon Industries could void the user's authority to operate the equipment.

### Altra™ Alarm Float Switch (optional depending on model)

Electrical: 5 Amp, 120/240VAC  
Operating Temperature: 0 - 140° F  
Cable Type: SJOOW (UL/CSA), flexible, 18 gauge, 2-conductor, water/oil resistant  
Float Housing: Polypropylene  
Switching Differential: 20° total (narrow angle) and 90° total (wide angle)  
Switching Configuration: Single Pole, Single Throw (Normally Open or Normally Closed)  
Certifications: CSA (US and Canada)