Oil Alert™ 3-Zone Alarm Panel

Standard | Rated Type 1, Indoor Alarm Panel

MODEL: VA-04, ALARM PANEL ONLY (USE WITH ALDERON™ OIL ALERT™ SERIES)

DESCRIPTION OF OPERATION

NOTE: If zone-1 (high oil) is in an alarm condition and the buzzer is silenced, and then zone-2 (high water) or zone-3 (trouble alarm) goes into an alarm condition, the buzzer will reactivate until the alarm silence pushbutton is pressed to acknowledge that a new alarm condition has occurred.

The Oil Alert™ 3-Zone Alarm is an indoor rated alarm panel, powered by a standard 120VAC wall outlet. The green power LED will illuminate (solid) when powered. The alarm panel is used with Alderon™ Oil Alert™ control panels (standard and overload) for the safe operation of pumping, alarming, and monitoring of: elevator sump pits, transformer vaults, and leachate well applications. The Oil Alert™ control panel will activate a pump to remove water from pits in accordance with ASME A17.1, stopping the pump before oil or other harmful substances enter the water supply.

The alarm panel is equipped with audible and visual alarm indication for high oil, high water, and trouble alarm events. A preset level sensor is wired to the control panel from the monitoring area and the control panel auxiliary contacts are wired to the terminal block on the alarm panel. Installing a 9VDC battery (not included) provides battery backup during power outages. Use the alarm panel auxiliary contacts to connect to building automation systems (BAS) and phone dialers.

An alarm condition occurs when the sensor for high oil, high water, and/or trouble alarm activates the control panel's auxiliary contacts. During an alarm condition, the red alarm LED(s) will illuminate (solid), buzzer will annunciate (solid), and the auxiliary contacts will activate. Press the alarm silence pushbutton during an alarm condition to silence the buzzer, the alarm LED(s) will remain on until the sensor deactivates. The silence condition will reset when the sensor deactivates and the alarm panel will auto reset for the next alarm cycle.

STANDARD FEATURES

(1) Power LED - A green LED illuminates (solid) on the front of the alarm panel to indicate the power is on.

(2) Alarm LEDs - During an alarm condition in zone-1, zone-2, and/or zone-3, the red alarm LED(s) will illuminate (solid) on the front of the alarm panel.

(3) Alarm Buzzer - The alarm buzzer will annunciate (solid) in addition to the visual indication provided by the red alarm LED(s) during an alarm condition.

(4) Alarm Test Pushbutton - Press the pushbutton to test the alarm to ensure proper operation. The buzzer should annunciate, alarm LEDs should illuminate, and auxiliary contacts should activate.

(5) Alarm Silence Pushbutton - Press the pushbutton to silence the buzzer during an alarm condition. The alarm LED(s) remain illuminated until the alarm condition has been cleared and the alarm panel will auto reset for the next alarm cycle.

(6) Signaling Device (INPUTS) - Connect the Oil Alert™ control panel auxiliary contacts to the terminal block on the alarm panel.

(7) Auxiliary Contacts (OUTPUTS) - Interface with an external device including BAS systems and phone dialers. The normally open dry contacts can switch 24VDC, 500mA maximum (each).

(8) Battery Backup - Install a 9VDC battery (not included) for battery backup during power outages. The power LED will not illuminate during battery backup mode to conserve battery power.

(9) Panel Access - Pull the cover off to access the panel, includes an open wiring compartment to safely route wires while connecting the signaling device and auxiliary dry contacts.

SPECIFICATIONS

Oil Alert™ 3-Zone Standard Alarm, Panel Only

Primary Power
120VAC, 50/60 Hz

Circuit Board Primary Power
11.1VDC, 500mA maximum

Circuit Board Secondary Power
9VDC, standard 9VDC battery
(battery backup; not included)

Watts
1.4 Watts

Field Connection Sensor
9-10VDC, 200mA minimum
(control panel signaling device)

Auxiliary Contacts
24VDC, 500mA maximum *(each)*
Normally Open
Terminals COM and 1A = High Oil
Terminals COM and 2A = High Water
Terminals COM and 3A = Trouble Alarm

Auxiliary Alarm Power
8-10.2VDC, 150mA maximum

LEDs
Green *(power)* and Red *(alarm)*

Buzzer
85 dB @ 10-feet

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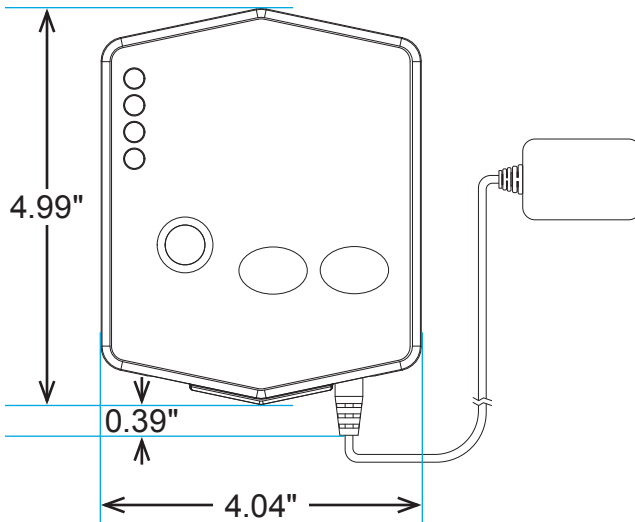*(6-foot cord)*

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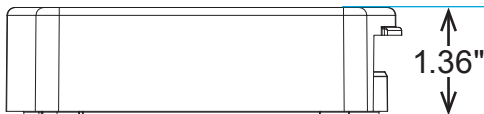Removable cover

Certifications
CSA *(US and Canada)*
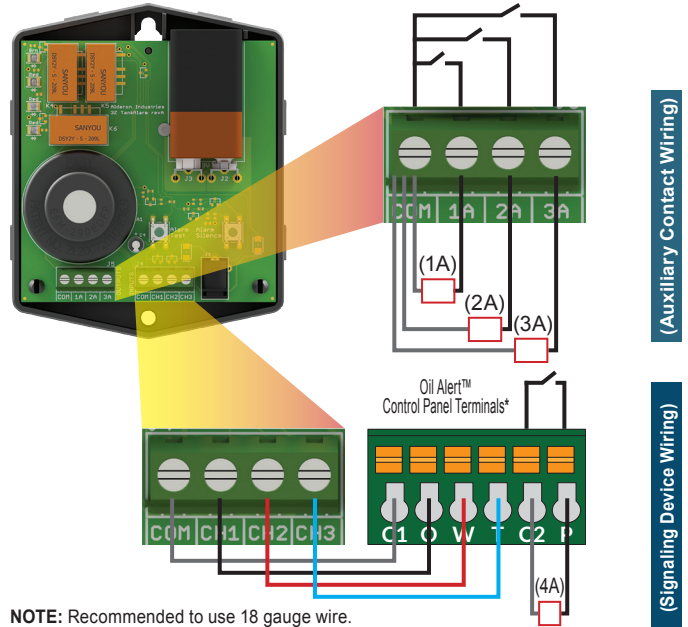
Three-Year Limited Warranty

MECHANICAL DRAWING

Oil Alert™ 3-Zone Alarm Panel (front view)

4.99"
0.39"
4.04"

Oil Alert™ 3-Zone Alarm Panel (side view)

1.36"

WIRING EXAMPLES

(Auxiliary Contact Wiring)

(Signaling Device Wiring)

Oil Alert™
Control Panel Terminals*

NOTE: Recommended to use 18 gauge wire.

WARNING: The alarm panel contacts are low voltage wires, follow National Electrical Code (NEC) requirements pertaining to separation of voltages if run in the same conduit/cable grip or junction box with high voltage wires.

Oil Alert™ Alarm Panel Auxiliary Contact Terminals (OUTPUTS):

COM and 1A = Zone-1, High Oil (connects to external monitoring device; i.e., 1A)
COM and 2A = Zone-2, High Water (connects to external monitoring device; i.e., 2A)
COM and 3A = Zone-3, Trouble Alarm (connects to external monitoring device; i.e., 3A)

Oil Alert™ Alarm Panel Signaling Device Terminals (INPUTS):

COM = Common (connects to Oil Alert™ control panel TB-C1)
CH1 = Oil Alarm (connects to Oil Alert™ control panel TB-O)
CH2 = Water Alarm (connects to Oil Alert™ control panel TB-W)
CH3 = Trouble Alarm (connects to Oil Alert™ control panel TB-T)

(*) Oil Alert™ Control Panel Terminals, Pump Run Auxiliary Contacts:

C2 and P = Pump Run (connects to external monitoring device; i.e., 4A)

ORDERING INFORMATION

For a complete list of standard products with pricing, refer to the current year price sheet or visit alderonind.com for more information.

PART NUMBER	DESCRIPTION (Alarm Panel includes: Auto Reset, Battery Backup, and Auxiliary Contacts)
2010531	Oil Alert™ 3-Zone - Standard Alarm, High Oil/High Water/Trouble Alarm (Alarm Panel Only)