

Description of Operation

The 3 phase Duplex Oil Alert is a NEMA 1 (indoor rated) three phase duplex control panel that alternates the pumps for equal wear. It's designed to pump water out of elevator sump pits, transformer vaults and leachate wells while containing the oil or hydrocarbons in the pumping tank. The panel operates 208, 230 or 460 VAC pumps. (575 VAC or other voltages are available upon request) Indicator lights on the front door will illuminate if the systems has power, the pump is running, or if there is a high water or high oil alarm (optional pump overload indicators available). The panel and pumps are hardwired through conduit. The Preset Level Sensor mounts in the pumping tank or pit.

Electrical Ratings

- 3 Phase
- 1-32 Amps
- 208/230/460V
- 60 Hz.

External Components

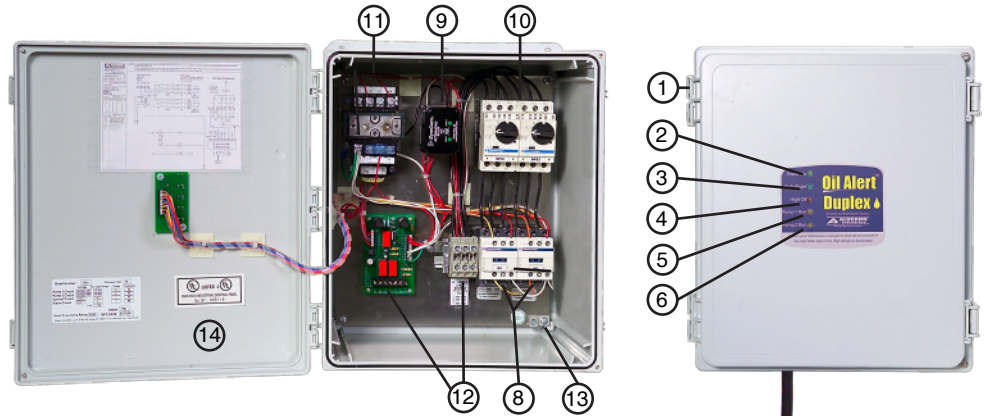
- ① 14X12X8 Nema 1 Thermoplastic
- ② Green Power On Indicator
- ③ Blue High Water Indicator
- ④ Red High Oil Indicator
- ⑤ Amber Pump 1 Run Indicator
- ⑥ Amber Pump 2 Run Indicator
- ⑦ Preset Level Sensor

Internal Components

- ⑧ IEC Motor Contactors
- ⑨ Alternating Relay
- ⑩ Motor Protective Switches
- ⑪ Transformer
- ⑫ Terminal Blocks
- ⑬ Ground Lug
- ⑭ UL Listed

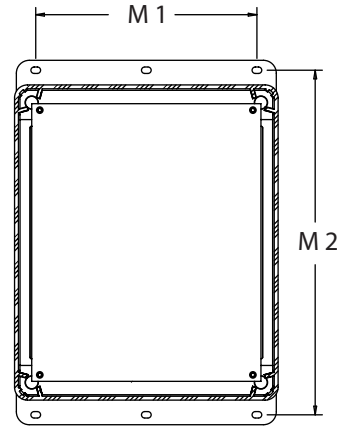
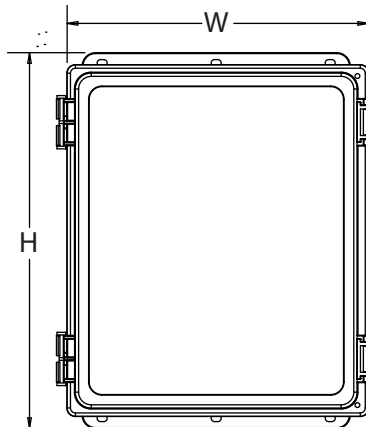
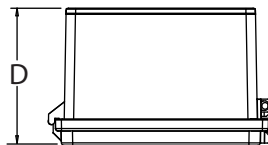
Features and Benefits

- Separate alarm & control fuses
- Alarm auto reset
- Load selector switch
- Preset Level Sensor
- Type 4X enclosure and other options available upon request



Enclosure Dimensions in inches

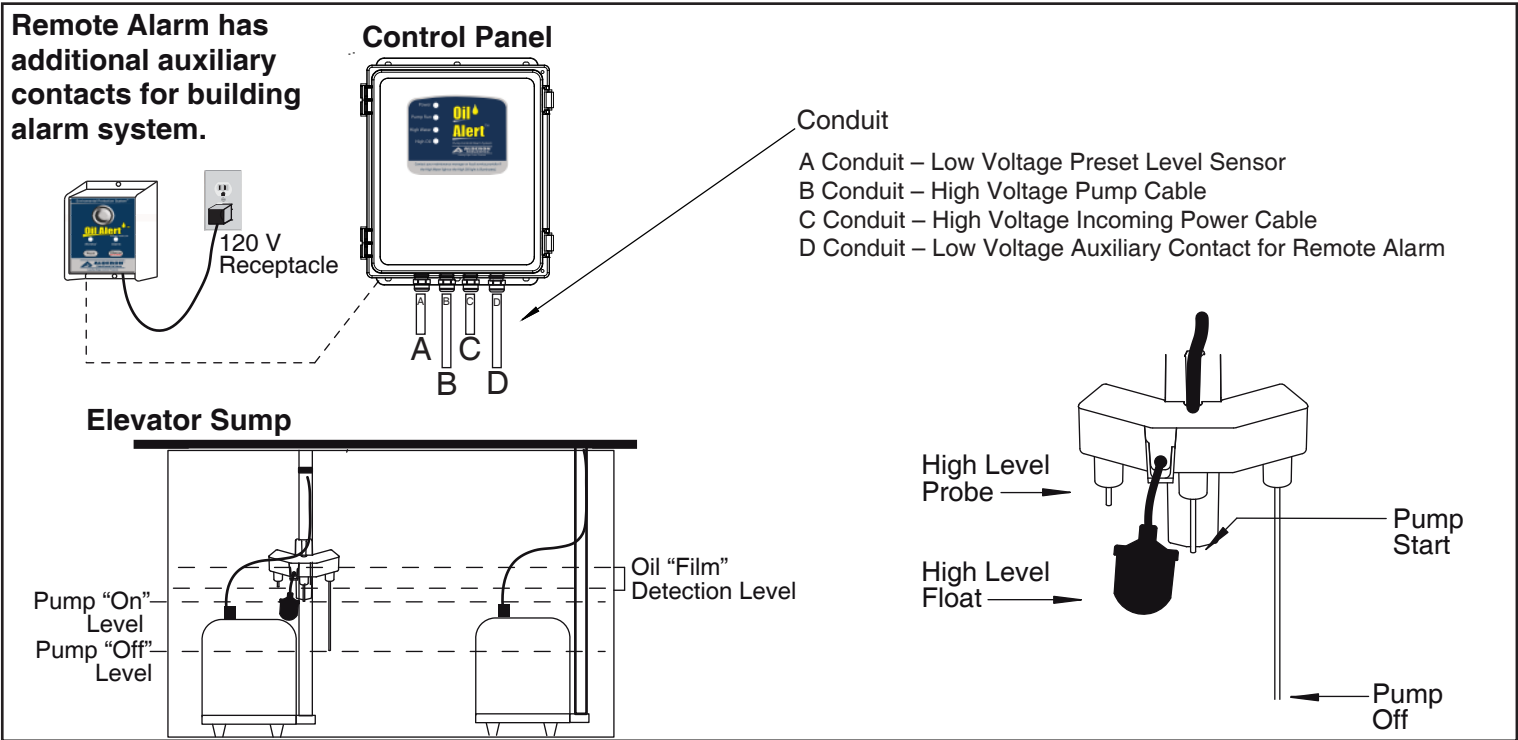
Width	Height	Depth	Mounting Holes	
W	H	D	M1	M2
13.32	16.04	9.28	10.56	15.27



System Overview

On liquid rise, level reaches pump “start” probe to start the pump. Pump will remain on until level is below “off” probe. The “off” probe senses air or oil and turns the pump off so the oil layer will not be pumped

out of the tank. If the level reaches alarm probe and mechanical float, the system will differentiate between water and oil and activate the remote alarm.



Specifications

Sensor

- ▶ **Housing:** ABS
- ▶ **Probe:** Stainless Steel
- ▶ **Float:** PVC

Control Panel

- ▶ **Enclosure:** Type 1
- ▶ **Voltage:** 208/230/460 VAC

Alarm Panel

- ▶ **Enclosure:** Type 1
- ▶ **Power Cord:** Plug In Transformer, 120 VAC

- ▶ **Backup Power:** 9 VDC Battery Backup
- ▶ **LED Alarm Indicators**
- ▶ **Audible Alarm:** 103 db buzzer, auto test/reset

Order Number



*For Longer Cord Lengths Consult Factory.

Part Number	Description
7865	Oil Alert, 3 Phase, Duplex, 208/230/460 VAC, 1.0-1.6 Amps, Sensor, Remote Alarm
7866	Oil Alert, 3 Phase, Duplex, 208/230/460 VAC, 1.6-2.5 Amps, Sensor, Remote Alarm
7867	Oil Alert, 3 Phase, Duplex, 208/230/460 VAC, 2.5-4.0 Amps, Sensor, Remote Alarm
7868	Oil Alert, 3 Phase, Duplex, 208/230/460 VAC, 4.0-6.3 Amps, Sensor, Remote Alarm
7869	Oil Alert, 3 Phase, Duplex, 208/230/460 VAC, 6.0-10.0 Amps, Sensor, Remote Alarm
7870	Oil Alert, 3 Phase, Duplex, 208/230/460 VAC, 9.0-14.0 Amps, Sensor, Remote Alarm
7871	Oil Alert, 3 Phase, Duplex, 208/230/460 VAC, 13.0-18.0 Amps, Sensor, Remote Alarm
7872	Oil Alert, 3 Phase, Duplex, 208/230/460 VAC, 17.0-23.0 Amps, Sensor, Remote Alarm
7873	Oil Alert, 3 Phase, Duplex, 208/230/460 VAC, 20.0-25.0 Amps, Sensor, Remote Alarm
7874	Oil Alert, 3 Phase, Duplex, 208/230/460 VAC, 24.0-32.0 Amps, Sensor, Remote Alarm