Oil Alert™ Control Panel

Single Phase Duplex, Overload, Type 4X (Indoor/Outdoor)
Model: OAHC1D230 | 120/240VAC; Specified Amp Ranges
CLEAR DOOR and LOCKABLE LATCHES

Alderon INDUSTRIES™

MARKETING DATA FLIER



Panel Options (customize application)

- Seal and Thermal Pump Sensors
- Control Circuit Breaker
- Anti-Condensation Heater
- Main Disconnect
- Lightning Arrestor
- Sensors for Sump or Lift Station Applications

STANDARD FEATURES

- **Type 4X Enclosure, Indoor or Outdoor Use, Pad-Lockable**
  - Standard Enclosure Size 14" x 12" x 6" (inches)
  - Clear Door, View OLED Screen with Alarm and Status Indicator LEDs
  - Alarm Buzzer and Alarm Test/Silence Switch
- **Pump Circuit Breakers, IEC Contactors, and Overload Relays**
  - IEC Contactor Pump Starters with Overload Relays Provide an Adjustable Pump Amp Range which Protects the Pumps from Overcurrent Damage and Pump Circuit Breakers for Pump Disconnect
- **Vibrant Multi-Color LEDs *(select indicators listed)***
  - Green (normal), Red (alarms), Blue (pump run), and Red/Yellow (error)
- **Automatic Resettable Alarm and Control Fuses**
- **Built-in Printed Circuit Board Surge Protection *(conformal coated)***
- **Easily Change Configurations**
  - Sump Applications, Preset Level Sensor with a Fixed or Adjustable Pumping Range
  - Lift Station Applications, (3) or (4) Float Switches and (1) Oil Probe
  - Enable Pump Exerciser
  - Enable Fire Input Mode, System Pumps Oil or Water when Activated
- **Statistic Tracking *(each pump)***
  - Pump Elapsed Time, Min/Max/Avg Pump Run Times, Pump Cycle Counter, Pump Amperage Stats, Pump Fail Stats, Total Gallons Pumped, High Level Stats, Oil Alarm Stats, and More
- **Included Auxiliary "Dry" Contacts**
  - High Oil, High Water, Trouble Alarm (P1/P2), and Pump Run (P1/P2)
- **Hand-Off-Auto (HOA) Pump Selector Switch *(each pump)***
  - Off Reminder, Yellow Flashing LEDs and Displays "Pumps Disabled"
  - Configurable Pump Disable
- **Scroll Wheel and Digital Display *(password protected settings)***
  - Navigate Menu, Access Statistics Tracking, Configure Settings, and Displays System Information on OLED Screen
- **Exterior Test/Silence Switch**
  - Quick View of Pump and Alarm Stats
  - Check Alarm LEDs and Buzzer or Silence Buzzer during Alarm

ORDERING INFORMATION

For a complete list of standard products with pricing, refer to the current price sheet or scan the QR code for more information on this product.

OIL ALERT™ - SINGLE PHASE | DUPLEX

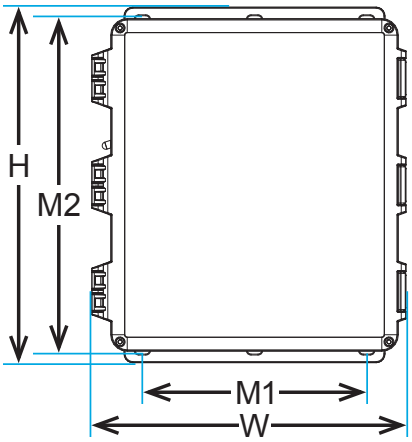
Base Model	Control Panel Description
OAHC1D230	Oil Alert™ Hard Wired, Clear Door, Single Phase Duplex, Overload, 120/240VAC

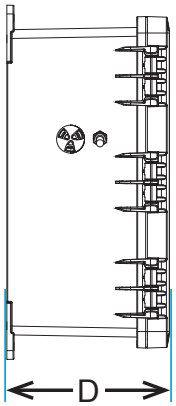
Panel Code	Pump Full Load Amps (FLA)
CO4-6	4.0 - 6.0 Amps
CO5.5-8	5.5 - 8.0 Amps
CO7-10	7.0 - 10.0 Amps
CO9-13	9.0 - 13.0 Amps
CO12-18	12.0 - 18.0 Amps
CO16-24	16.0 - 24.0 Amps

OR

Sensor Options	Panel Code	Description (narrow angle models only)
Sensors (signaling device)	+S	Sump Applications (see below)
Preset Level Sensor	25	25' Cable Length
	50	50' Cable Length
	100	100' Cable Length
Pumping Range	OS	Fixed Pumping Range (6")
	VOS	Adjustable Pumping Range (1"-44")
Sensors (signaling device)	+L	Lift Station Applications (see below)
Number Of Control Switches	3	(3) Float Switches & (1) Oil Probe
	4	(4) Float Switches & (1) Oil Probe
Sensor Cable Length (float switch and oil probe)	F20P20	20' Cable Length
	F30P30	30' Cable Length
	F50P50	50' Cable Length

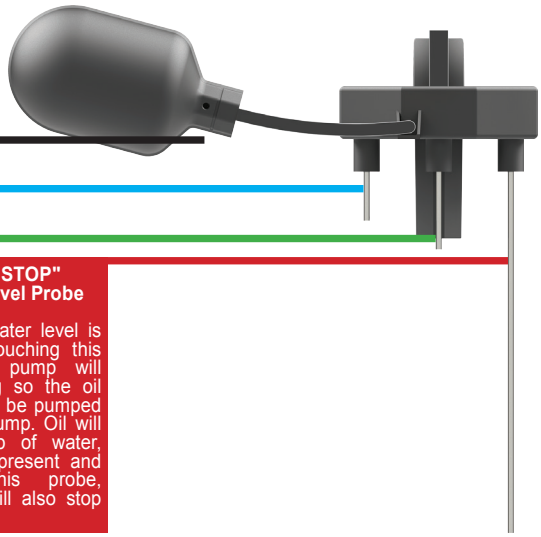
***Example: OAHC1D230CO5.5-8+L4F20P20X** = Oil Alert™, Clear Door, Single Phase Duplex, Overload, 120/240VAC, 5.5-8.0 Amps, (4) 20' Control Switches, Cast Iron Weights, (1) 20' Oil Probe*





PANEL CODE (enclosure size)	OVERALL Width (W)	OVERALL Height (H)	OVERALL Depth (D)	MOUNTING Width (M1)	MOUNTING Height (M2)
Base Model (E3) *14 x 12 x 6*	14.01	15.85	7.27	10.24	14.83
E4 *16 x 14 x 8*	16.09	17.85	9.27	12.24	16.91
Enclosure measurements (inches)					

APPLICATION EXAMPLES



"OIL DETECTION" High Level Float

If oil, hydrocarbon, or other harmful substances are floating on top of the water level touching the high water probe while simultaneously activating the high level float switch, then a high oil alarm (oil detected) condition occurs and the pump continues to run as long as water and not oil is touching the pump start and pump stop probes.

"HIGH WATER" Sensor Level Probe

If the water level rises touching the high water probe, a high water alarm condition occurs and the pump continues to run, (also a redundant pump start/pump run function; duplex will activate the lag pump). The alarm condition automatically resets (factory default) when water is no longer touching the high water probe.

"PUMP START" Sensor Level Probe

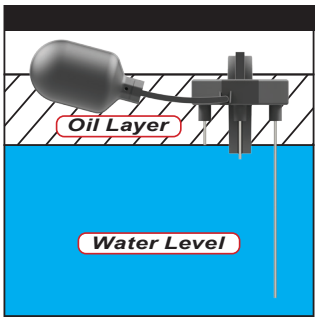
As the water level rises touching the pump start probe, the pump will start and continue to run until the water level recedes below the pump stop probe to complete the pump cycle. The control panel displays a pump run event with LEDs while the pump is running.

"PUMP STOP" Sensor Level Probe

When the water level is no longer touching this probe, the pump will stop running so the oil layer will not be pumped out of the sump. Oil will float on top of water, so if oil is present and touching this probe, the pump will also stop running.

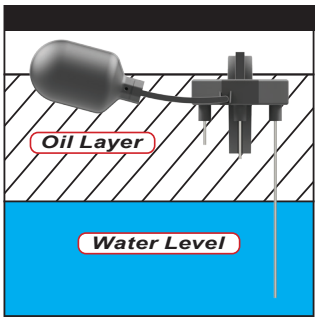
High Oil Alarm Condition (oil detection) | Sump Level Examples:

To determine the oil layer thickness in the sump/monitoring area during a high oil alarm condition, review the sensor LED status indicators or OLED display screen with illuminated LEDs for an approximate oil level in the sump. See below for diagrams and general system descriptions.



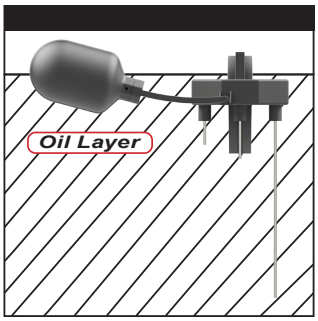
Example 1: If the panel P1, P2, and F1 LED status indicators are illuminated (solid), then the oil layer will be submerging the high water probe.

Example 2: If the panel OLED display screen shows "Sensor Status Inputs: 11010", then the oil layer will be submerging the high water probe.



Example 1: If the panel P1 and F1 LED status indicators are illuminated (solid), then the oil layer will be submerging the high water and pump start probes.

Example 2: If the panel OLED display screen shows "Sensor Status Inputs: 10010", then the oil layer will be submerging the high water and pump start probes.



Example 1: If only the panel F1 LED status indicator is illuminated (solid), then the oil layer will be submerging the high water, pump start, and pump stop probes.

Example 2: If the panel OLED display screen shows "Sensor Status Inputs: 00010", then the oil layer will be submerging the high water, pump start, and pump stop probes.