Oil Alert™ Control Panel

Three Phase Simplex, Type 4X (Indoor/Outdoor)
Model: OAHC3S | 208/230/460VAC or 230/460/575VAC; Specified Amp Ranges
CLEAR DOOR and LOCKABLE LATCHES

Alderon™ INDUSTRIES

MARKETING DATA FLIER



Panel Options (customize application)

- Seal and Thermal Pump Sensor
- Anti-Condensation Heater
- Main Disconnect
- Lightning Arrestor
- Sensors for Sump or Lift Station Applications
- Enclosure Size Upgrades

STANDARD FEATURES

- **Type 4X Enclosure, Indoor or Outdoor Use, Pad-Lockable**
  - Standard Enclosure Size 12" x 10" x 6" (inches)
  - Clear Door, View OLED Screen with Alarm and Status Indicator LEDs
  - Alarm Buzzer and Alarm Test/Silence Switch
- **Pump Motor Protective Switch (MPS) and IEC Contactor**
  - Combination Circuit Breaker, IEC Contactor Pump Starter, and Overload Relay with an Adjustable Pump Amp Range which Protects the Pump from Overcurrent Damage or use MPS 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**
  - 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 (pump), and Pump Run
- **Hand-Off-Auto (HOA) Pump Selector Switch**
  - Off Reminder, Yellow Flashing LEDs and Displays "Pump 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

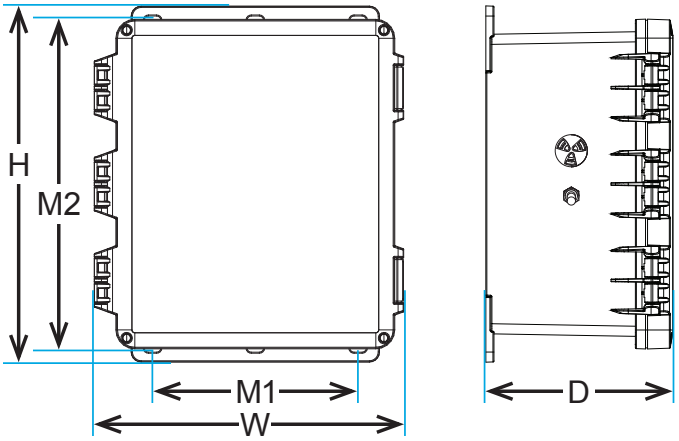
For a complete list of standard products with pricing, refer to the current price sheet or scan the QR code for more information on this product.

OIL ALERT™ - THREE PHASE | SIMPLEX

Base Model	Control Panel Description
OAHC3S	Oil Alert™ Hard Wired, Clear Door, Three Phase Simplex, 208/230/460VAC (460) or 230/460/575VAC (575)

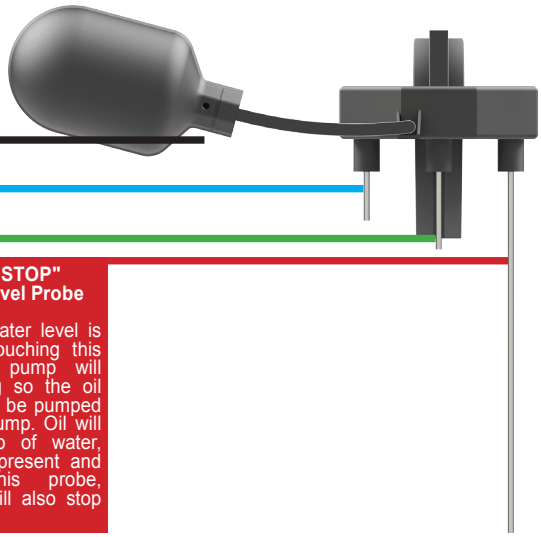
Panel Code	Pump Full Load Amps (FLA)		Sensor Options	Panel Code	Description (narrow angle models only)
CO1-1.6	1.0 - 1.6 Amps		Sensors (signaling device)	+S	Sump Applications (see below)
CO1.6-2.5	1.6 - 2.5 Amps		Preset Level Sensor	25	25' Cable Length
CO2.5-4	2.5 - 4.0 Amps			50	50' Cable Length
CO4-6	4.0 - 6.0 Amps	OR		100	100' Cable Length
CO6-10	6.0 - 10.0 Amps		Pumping Range	OS	Fixed Pumping Range (6")
CO9-14	9.0 - 14.0 Amps			VOS	Adjustable Pumping Range (1"-44")
CO13-18	13.0 - 18.0 Amps		Sensors (signaling device)	+L	Lift Station Applications (see below)
CO17-23	17.0 - 23.0 Amps		Number Of Control Switches	3	(3) Float Switches & (1) Oil Probe
CO20-25	20.0 - 25.0 Amps			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: OAHC3S460CO4-6+S50OS** = Oil Alert™, Clear Door, Three Phase Simplex, 208/230/460 Volts, 4-6 Amps, 50' Sensor, Fixed Pumping Range, 6"*



PANEL CODE (enclosure size)	OVERALL Width (W)	OVERALL Height (H)	OVERALL Depth (D)	MOUNTING Width (M1)	MOUNTING Height (M2)
Base Model (E2) *12 x 10 x 6*	12.04	13.85	7.27	8.27	12.82
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
E5 *18 x 16 x 10*	18.16	19.85	11.27	14.25	18.99
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

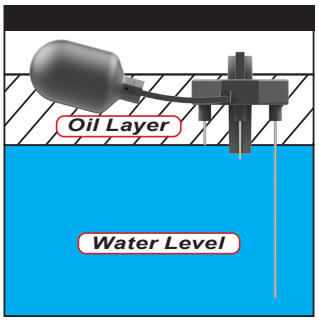
As the water level rises touching the pump start probe, the pump will start and continue to run until the water level recedes below the pump stop probe to complete the pump cycle. The control panel displays a pump run event with LEDs while the pump is running.

"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.

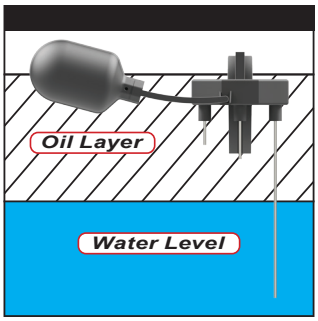
High Oil Alarm Condition (oil detection) | Sump Level Examples:

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.



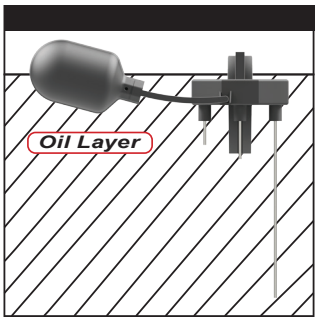
Example 1: If the panel P1, P2, and F1 LED status indicators are illuminated (solid), then the oil layer will be submerging the high water probe.

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.