

Oil Smart® Plug & Play: 120VAC

The Oil Smart® OSS-100 System incorporates pump controls and alarm sensors that differentiate between oil and water, allowing companies to responsibly discharge the water without the risk of pumping oil. Installation of the OSS-100 keeps companies in compliance with Elevator Code ASME A17.1 and State/Federal regulations while reducing the risk of adverse publicity, fines, and expensive cleanup cost.

Model	FLA Range
OSS-100	(0.0-16.0 FLA)

Oil Smart® Pump Switch Mounting: NEMA 6P; IP67

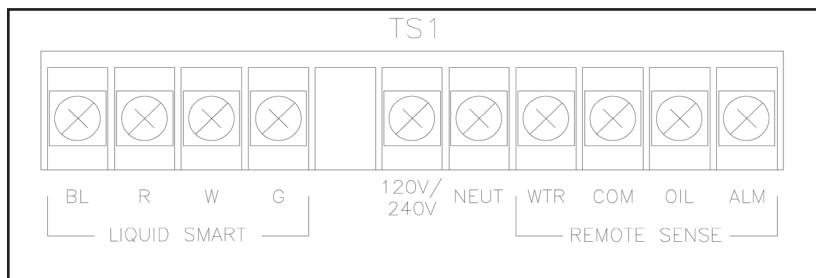
Mounting - Mount Oil Smart® Pump Control Sensor with provided mounting hardware to the pump's PVC discharge pipe. The 'OFF' sensor of the Oil Smart® Switch shall be positioned at least 3" above the impeller of the pump.

Oil Smart® Alarm Mounting: NEMA 3R

Mounting - Mount Oil Smart® Alarm panel (OSA-05) to near by wall with provided

Remote Monitoring Dry Contacts:

1. Normally Open dry contacts for high oil, high water, and general high liquid alarm.



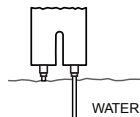
www.seewaterinc.com
951.487.8073 • 888.733.9283 • info@seewaterinc.com
22220 Opportunity Way, Suite 101 • Riverside, CA 92518

Sequence of Operation:

Operation of Oil Smart®

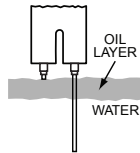
Normal Condition (Water Only)

When water comes in contact with the short (on) sensor, the pump will turn on. The pump will remain on until water clears the long (off) sensor.



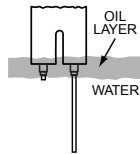
Oil Present Condition

If oil comes in contact with the (on) sensor, the pump will not turn on.



Water (Oil Present Condition)

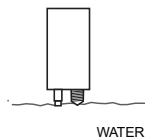
If the water level rises enough to contact the (on) sensor under the oil layer, the pump will turn on and remain on until the (off) sensor clears.



Operation of Liquid Smart®

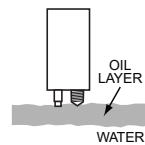
High Water Level

When water comes in contact with both sensors, the white water indicator on the front panel will illuminate. This condition will turn on the red beacon alarm light and sound the alarm buzzer.



High Oil Level

If oil comes in contact with both sensors, the yellow oil indicator on the front panel will illuminate. This condition will turn on the red beacon alarm light and sound the alarm buzzer.



Testing:

Oil Smart® Pump Switch Testing:

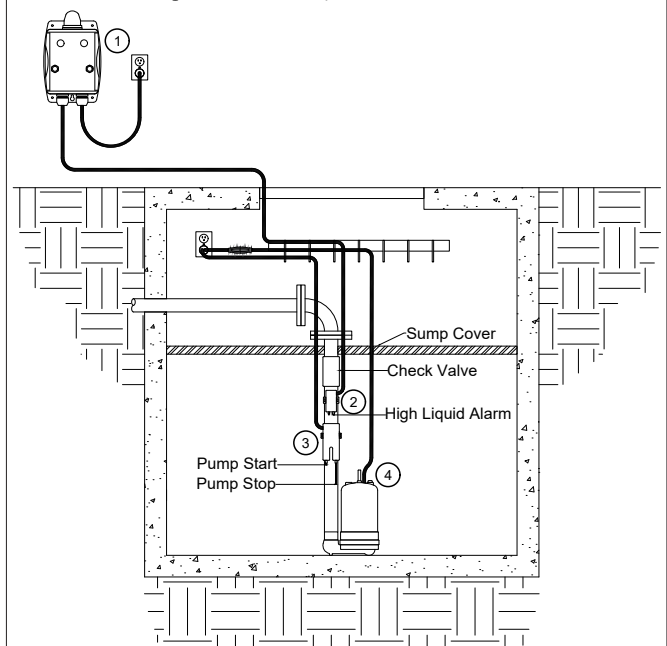
- Place your thumb on the short stainless steel sensor of the Oil Smart® Pump Switch, and the pump will turn on. While touching the short 'ON' sensor, touch the long 'OFF' sensor with your fingers; remove your thumb from the short 'ON' sensor and begin to move your fingers down the 'OFF' sensor simulating water being pumped down. Once fingers are removed from 'OFF' sensor, the pump will turn off.
- Optional: Fill the sump area with ground water, when water reaches the 'ON' sensor, the pump will turn on and remain on until water clears the 'OFF' sensor.

Liquid Smart® Alarm Testing:

- Submerge both sensors in oil and the yellow oil indicator on the front panel will illuminate. To test water sensor, submerge both sensor in ground water and the white water light will illuminate.
- Both test will illuminate the 360 degree visible beacon and sound an 85 decibel at 10' buzzer.

Typical Installation of Oil Smart® Simplex Control Panel

- Oil Smart® Alarm OSA-05
- Liquid Smart® Alarm Sensor
- Oil Smart® Pump Switch
- Submersible Pump #1



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