



Oil Smart® Pump Switch & Alarm Installation and Operation manual OSS-100

Oil Smart® Plug-and-Play System: 120VAC

The Oil Smart® Plug-and-Play (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

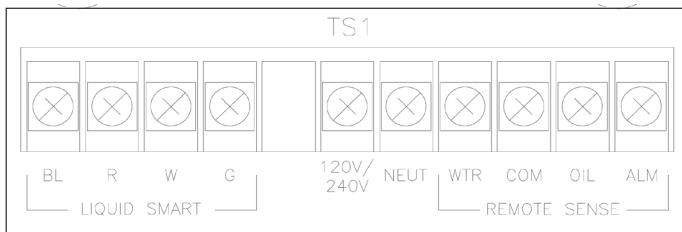
Mounting - Mount Oil Smart® Pump Switch with provided mounting hardware to the pump's PVC discharge pipe. The "Off" sensor of the Oil Smart® Pump Switch shall be positioned at least 3" above the impeller of the pump.

Oil Smart® High Liquid Alarm Mounting: NEMA Type 1

Mounting - Mount Oil Smart® Alarm panel (OSA-05) to nearby wall with provided mounting hardware to the pump's PVC discharge pipe.

Remote Monitoring Dry Contacts:

Normally open dry contacts for high oil, high water, and general high liquid alarm. Rated 60V AC/DC, 1 AMP max.



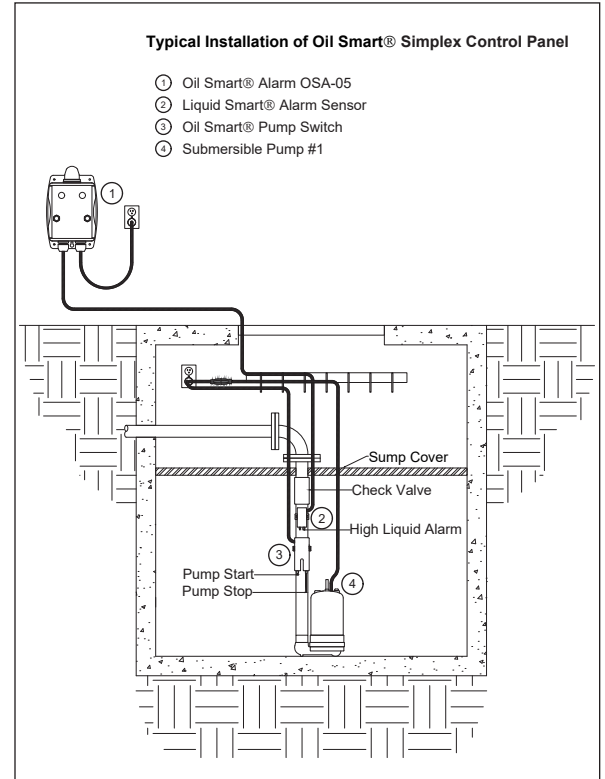
Testing:

Oil Smart® Pump Switch:

- Place your thumb on the short sensor of 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 "On" sensor and begin to move your fingers down the "Off" sensor. Remove your fingers from "Off" sensor and the pump will turn off.
- Optional: Fill up sump area with water, when water reaches the "On" sensor, the pump will turn on and remain on until water clears the "Off" sensor.

Liquid Smart® Alarm Sensor:

- Oil Test:** Submerge both sensors in oil and the amber "Oil" indicator on the front of the panel will illuminate.
- Water Test:** Submerge both sensors in water and the white "Water" indicator on the front of the panel will illuminate.
- Both tests will illuminate the 360-degree visible beacon and sound an 85-decibel buzzer at 10'.



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Sequence of Operation:

Operation of Oil Smart®

Normal Condition (Water Only)

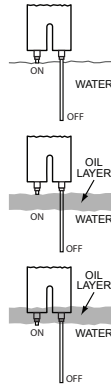
When water comes in contact with the short "On" sensor, the pump will turn on. The pump will remain on until water clears the long "Off" sensor.

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 underneath the oil layer, the pump will turn on and remain on until the "Off" sensor clears of water.



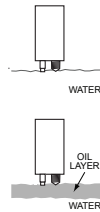
Operation of Liquid Smart®

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.



Troubleshooting:

Caution: Before checking electrical connections within the control or attempting to replace any components, turn off all branch circuits supplying power to the main control panel.

Pump control does not activate the pump or pump does not run:

- Verify polarity is correct.
- Confirm all connections are tight and secure.
- White plastic case must be kept clean. Clean with household rubbing alcohol and rag.
- Keep control 1" - 2" clear of any metallic material. Mount to PVC pipe or if mounted to metal pipe, make sure to mount with See Water quick mount PVC bracket.

Alarm will NOT activate:

- Confirm 120VAC power to circuit board J1-6 and J1-7. Power can be jumpered from incoming voltage if needed.
- Check for any visual damage to optic or stainless steel sensor on the Liquid Smart® Sensor.

Preventive Maintenance:

- The Oil Smart® Pump Switch and Liquid Smart® Alarm Sensor must be kept clean. If the switches are submerged during installation or maintenance, clean the white plastic case with rubbing alcohol. Consistent inspection and preventive maintenance ensures longevity and proper operation of components.

Notes:

Warranty:

See Water Inc. warrants that products of its manufacture are free from defects in material and workmanship for a period of 5 years from the date of purchase. This date shall be determined by the date on the invoice and the serial number on the product.

Replacement of the product is at the discretion of See Water Inc. This warranty is valid when the product is installed in compliance with the manufacturer's installation instructions. The manufacturer's obligation under this warranty shall be limited to the repair or replacement of any parts found by the manufacturer to be defective, provided that the product is returned to See Water's factory, postage prepaid with proof of original purchase included.

The manufacturer of this warranty shall not be liable under this warranty if the product has not been properly installed; any alterations/additions/changes to the product will result in a void warranty. Failure to properly install and test this product can result in personal injury or equipment malfunction.

See Water, Inc. shall not be liable for any loss, damage or expenses from installation or use of its products.

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