Oil Smart® Pump Switch:

The Oil Smart® Pump Switch, when combined with a non-auto sump pump, will automatically pump water without the risk of pumping oil into the environment. Installation of the Oil Smart® Pump Switch allows you to comply with Elevator Code ASME A17.1 and State/Federal regulations while reducing the risk of adverse publicity, fines and expensive cleanup costs.

Models:

**OSS20R6**
MAHR1 120V 60 Hz. 16 Amps (hardwire)
  - Model #OSS20R 2.5" Pumping Range
  - Model #OSS20R6 6" Pumping Range

**OSS20PBPR6**
MAPR1 120V 60Hz. 16 Amps (Piggyback Plug)
  - Model #OSS20PBPR 2.5" Pumping Range
  - Model #OSS20PBPR6 6" Pumping Range

**OSS20R6E**
230V 50/60 Hz. 8 Amps (hardwire)
  - Model #OSS20RE 2.5" Pumping Range
  - Model #OSS20R6E 6" Pumping Range

Features:

- No moving parts, patented electronic control
- Solid-state sensing device that differentiates between oil and water. Incorporates two level sense points, pump on, pump off
- Includes 20’ of 12 awg SJTOW wire
- Completely encapsulated and water tight; Type 3R outdoor UV resistant enclosure
- UL Certified File E183129, CE Certified
- Includes complete mounting brackets and hardware

**WARNING**
1. All installations must be in accordance with the National Electrical Code, and any other applicable state and local electrical requirements.

**WARNING**
1. The switch and pump are not rated for explosive environments. This product is intended for hydraulic oils only.

Oil Smart® Switch Installation:

1. Mount Oil Smart Pump Control and Liquid Smart Sensor with provided mounting hardware to pump discharge pipe. The off sensor of the Oil Smart Switch shall be positioned at least 3" above the impeller of the pump.
2. Branch circuit protection shall be provided by the installer.

Oil Smart® Pump Switch Testing:

Place your thumb on the short 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 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.
Oil Smart® Pump Switch
Installation Manual

Oil Smart® Switch Operation:

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 of water.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
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</thead>
<tbody>
<tr>
<td>Pump Control does not activate the pump. Pump does not run.</td>
<td>Incorrect Polarity</td>
<td>Make sure phase and neutral are not reversed</td>
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<tr>
<td></td>
<td>Non-Conductive Water (Highly Filtered Water)</td>
<td>Test pump switch with fingers per the instructions</td>
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<tr>
<td></td>
<td>Defective Control</td>
<td>Replace Control</td>
</tr>
<tr>
<td>Pump Control is not operating properly; not consistant or staing on</td>
<td>Control is not clean of conductive material.</td>
<td>White plastic case must be kept clean. Clean with household rubbing alcohol</td>
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<tr>
<td></td>
<td>Improper Mounting of Component</td>
<td>Keep control (1&quot; to 2&quot;) clear of any metallic material. Mount to pvc pipe or if mounting to metal pipe, make sure to mount with See Water quick mount PVC bracket.</td>
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<tr>
<td></td>
<td>Float switch attached to pump</td>
<td>Float switch must be removed, secured in manual operation</td>
</tr>
<tr>
<td></td>
<td>Defective Control and/or Pump(s)</td>
<td>Replace Control and/or Pump(s)</td>
</tr>
</tbody>
</table>

Any technical questions on this product should be directed to See Water, Inc at 888-733-9283.