

NEW STATE OF THE ART OIL SMART® DISCONNECT PUMP CONTROLLER

Designed for Use with Hydro Generation Units Oil Smart® Disconnect Pump Controller

In the event that the pump controller fails to deactivate the pump, the shut-down device will de-energize the pump controller, thus substantially preventing the hydro unit from being damaged by dry conditions.

TECHNICAL DATA:

Operating Voltages and **Model #'s:**

- # **MTAH.25** 120VAC 50/60 Hz. 3AMP
- # **MAHR1** 120VAC 50/60 Hz. 16AMP 1HP NO PLUG
- # **MTAP.25** 120VAC 50/60 Hz. 3AMP PLUG
- # **MAPR.75** 120VAC 50/60 Hz. 13Amp 3/4 HP PLUG

WITH DISCONNECT:

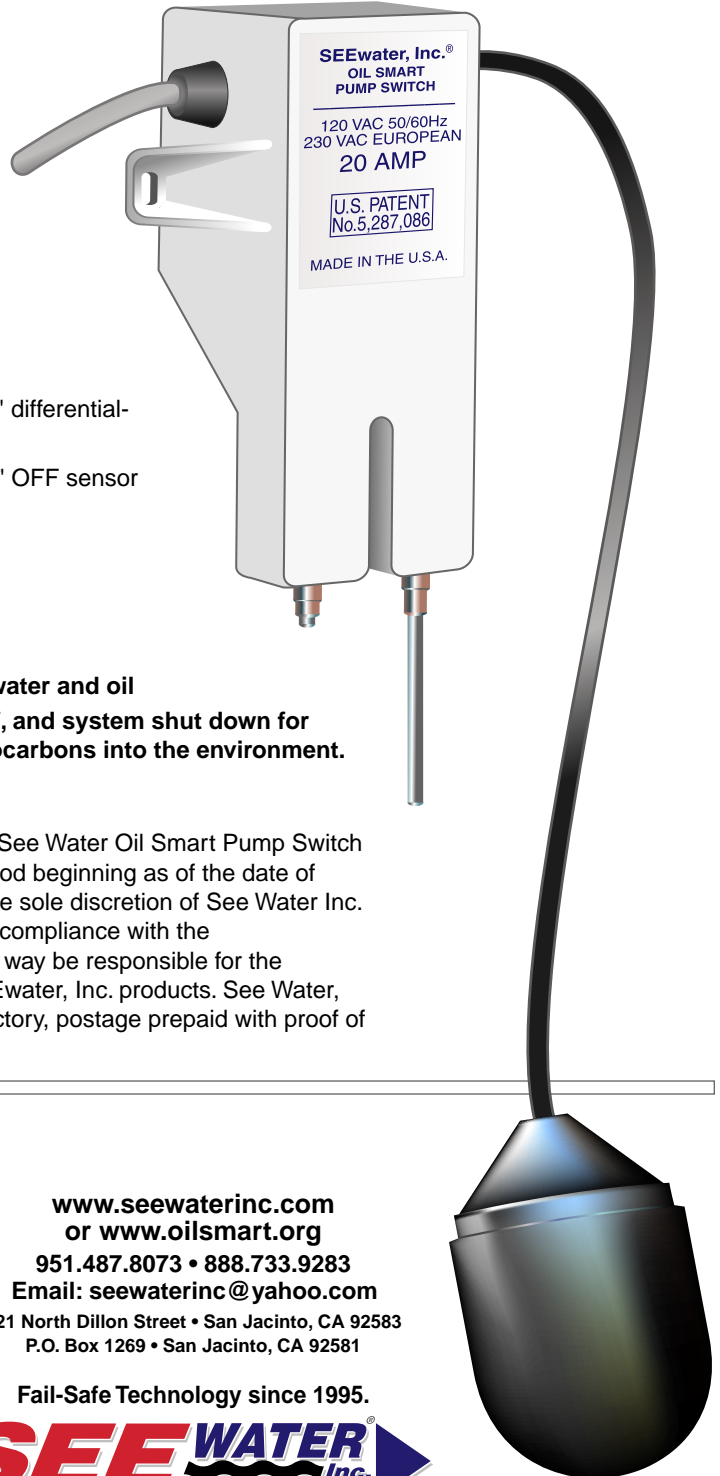
Model No.	HP	Volts
OSDS20	0-1	120
OSDS20PBP	0-3/4	120

Oil Smart® pump controller with 20" cord, bracket and 6" or 2.5" differential-ON & OFF SENSORS.

- Dimensions: 2.50" Wide x 6" High x 1.75" Deep plus 2.5" or 6" OFF sensor
- Magnetic Motor Controls UL508
- Listed Industrial Control Equipment
- Completely Encapsulated & Water Tight
- CE Certified
- New Patent Pending
- **A solid-state sensing device that differentiates between water and oil**
- **Incorporates three level sense points, pump on, pump off, and system shut down for pump protection and prevents pumping oil and any hydrocarbons into the environment.**

WARRANTY:

• Oil Smart® Pump Switch, SEE Water® Inc. warrants that the See Water Oil Smart Pump Switch will be free from defects in material and workmanship for a period beginning as of the date of purchase for two (2) years. Replacement of the switch only at the sole discretion of See Water Inc. This warranty is valid only when the product is installed in strict compliance with the manufacturer's installation instructions. See Water Inc. will in no way be responsible for the reliability of any pump that is connected to or operates with SEEwater, Inc. products. See Water, Inc. will replace the switch when it is returned to See Water's factory, postage prepaid with proof of original purchase included.



www.seewaterinc.com
or www.oilsmart.org

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Fail-Safe Technology since 1995.

SEE WATER Inc. 
"OIL SMART" Water Pump Switches

HYDRO GENERATION OIL SMART® DISCONNECT PUMP CONTROLLER

OIL SMART® SWITCH AND PUMP INSTALLATION:

CAUTION: YOU MUST REMOVE ANY FLOAT SWITCH THAT IS CURRENTLY IN USE OR SUPPLIED BY PUMP MANUFACTURER. IF PUMP HAS MANUAL/AUTO SET, SWITCH TO MANUAL.

Installation of the **Oil Smart® water pump switch** allows you to comply with State and Federal regulations while reducing the risk of adverse publicity, fines and expensive cleanup costs. The **Oil Smart® water pump switch** prevents inadvertently pumping oil contaminated waste into the environment, improves the reliability of your electric system and provides a safe, dry work environment for your employees.

FUSING:

Follow the pump manufacturer's instructions. Do not exceed the Oil Smart® switch amp rating. **A portable device may not be attached to a permanent structure.**

THE INITIAL INSTALLATION:

should be in a clean environment, clear of mud and all metallic debris. The switch should be installed where the water intrusion will not directly contact or splash the switch body.

Mud and other **conductive** materials left on the body of the switch will hamper its operation. Effort must be taken to **clean the switch** prior to leaving initial installation.

CLEAN STRUCTURE:

requires minimum switch maintenance for a trouble-free operation. Install the switch so that on and off sensors clear any metallic material (earth, mud, concrete and all metals) by a minimum of 2".

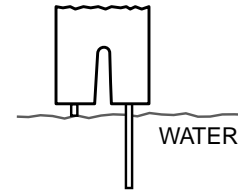
SWITCH MAINTENANCE:

The white plastic case must be clean of any conductive materials (dirt, soap or rust). Clean with alcohol.

OPERATION:

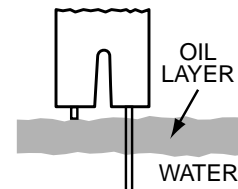
Normal Condition (Water Only)

The short sensor probe turns the pump "on" and the long sensor probe turns the pump "off". When the short sensor is in contact with water, the pump will continue to cycle "on and off" until the short sensor detects oil.



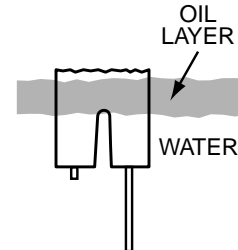
Oil Present Condition

The pump will not cycle if oil is in contact with the short sensor.



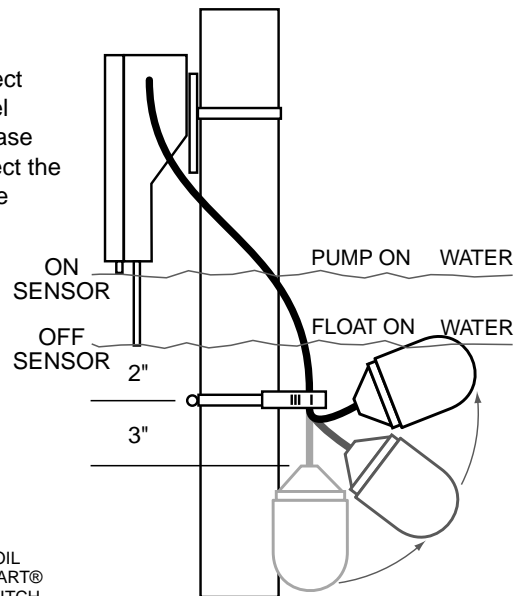
High Water (Oil Present Condition)

If additional water enters the basin, it will cause the oil layer to rise above the short sensor, resulting in the pump cycling.

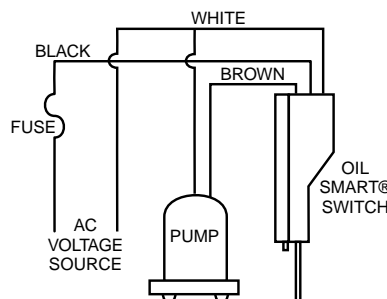


Using the Alligator Clamp

Alligator clamp enclosed, connect (tether) the float switch at a level that is in the "on" position. At least 2" below the "off" sensor, connect the alligator clamp on the float cable 3" from the float.



WIRING DIAGRAM



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SEE WATER Inc.
"OIL SMART" Water Pump Switches

Oil Smart® Switch

Trouble Free Operation

1. Plastic Switch case **must** be **kept clean**. Free of: rust, mud, soap, etc. If switch is submerged in water during initial installation, switch **must be cleaned**.
2. **Clean** with Alcohol or an oil base product: kerosene, solvent.
3. Pumps with an attached float switch, **Float switch must be removed or secured in manual operation** before attaching the Oil Smart® switch.
4. Mount switch in secure manner to: pump PVC pipe, do not mount to metallic material.
5. Mount in sump clear of water inlet keeping switch case clean & dry as possible.
6. Keep bottom of long sensor at least two inches above pump inlet (Impellor).
7. Keep sensors one to two inches (1 to 2”) clear of any metallic material.
8. Switch will not function with incorrect polarity (**Polarity Sensitive**).
9. Supply voltage: 115AC and 240AC For European model.
10. Pump turns on when water covers long and short rod.
11. Test switch: to simulate water, place thumb and finger on sensor rods let go of short rod and firmly slide finger down long rod, switch will turn off when finger is clear of long rod.