

**Slick
Sleuth™**

SLICK SLEUTH SS300 OIL SPILL DETECTION & ALARM

The Slick Sleuth™ SS300 is used in a wide variety of industrial and environmental applications for remote detection of oil leaks and spills. The Slick Sleuth SS300 provides real-time detection and alarm notification, enabling users to contain the leak or spill, thereby averting environmental damages, costly cleanup, fines, regulatory penalties and negative publicity.

The Slick Sleuth SS300's optical sensor detects small (micron-level) amount of oil in real-time and can send signals to automatically activate or deactivate pumps, open or close valves, activate audio/visual alarms and send alarms to remote locations over wireless communications (radio telemetry or cellular networks). The Slick Sleuth SS300 can also be interfaced to the facility's central monitoring and control system (SCADA, PLC, etc.).

The Slick Sleuth SS300 is designed and manufactured for deployment in rugged settings such as offshore, harbors, inland waterways, industrial spillways, over sumps and separators, retention ponds and other environments where oil spills are of concern. The Slick Sleuth SS300 is easily installed 1-to-5 meters above the water (or dry surface) and has no contact with any potential contaminants. The non-contact technology eliminates all contact contamination problems and problems associated with aquatic/marine bio-fouling or debris – thereby assuring continuous operations and significantly reducing maintenance.

The Slick Sleuth SS300 is ideal for the detection of oil leaks and spills on fresh, brackish or saltwater or on ground, concrete and over solid surfaces.

The detection technology is based on the fluorescence of hydrocarbons - crude oil and refined oil derivatives such as: lubricants, transformer oils, fuel oils, turbine oil, hydraulic fluids, motor oil, gasoline, aviation and jet fuels in addition to various food oils, process oils, chemicals and many other oils. Slick Sleuth systems uses a high intensity ultraviolet (UV) flash lamp light source and proprietary optical detection technology which is not affected by ambient light conditions. The sensor operates in all outdoor or indoor light conditions, during sunlight and night-time hours, in the rain, snow or other conditions. Each detector is completely self-contained incorporating a high intensity xenon flash, optical detection circuitry, internal processor and logic/control components.



Slick Sleuth SS300
Oil Leak & Spill Detection System

Real-Time Oil Spill Detection
Non-Contact Sensor System
High Sensitivity - No Maintenance

Slick Sleuth's detection settings are user selectable enabling the user to establish the detection period (sampling interval / frequency) from ½ second to 1½ hour intervals and detection threshold. The adaptive baseline feature can be enabled when the distance between the detector and the water surface is expected to change significantly over time such as on a pier installations where tidal flow changes the water level on a daily basis or storm water discharges that intermittently increase the water level in a storm water sumps

One or more Slick Sleuths can be strategically located at a facility to protect against either discharge or intake of oil, which if undetected would be damaging to the plant equipment or to the immediate environment and waterways.

Slick Sleuth provides the most advanced technology for use as a best management practice (BMP) automatic detection system for the real-time detection of leaks and spills and for Spill Prevention Control Countermeasure (SPCC) plans.

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Specification

- Model:** SS300 - Slick Sleuth
- Operation:** Automated, Optical, Non-Contact Sensor
Patented UV Filter-Fluorometer Methodology
Oil On Water Detection: Crude, Lube, Hydraulic, Jet/Aviation, Diesel, Fuel Oil, Turbine, Transformer, and Many Others
(contact factory to inquire about types of oil detected)
- Sensitivity:** 3 +/- Micron Sheen
User Adjustable Sensitivity
Discrete Alarm and/or Scaled Signal Output
- Range:** 1-to-5 Meters (Distance Above Surface)
- Operating Temp:** -10 to +60 °C (Standard) -20 to +60 °C (Optional)
- Enclosure:** Stainless Steel
NEMA 4X, IP66, Weatherproof Housing
External Ports: Power In, Signal Out, USB Serial Interface
4-Corner Mounting Tabs
- Purge Compatible:** Purge System for Hazardous Gas Locations (Contact Factory)
- Dimensions:** Approx. 8¼" x 12¼" x 15½" / 21cm x 31cm x 39cm (D x W x H)
- Weight:** Approx. 30 lbs / 13 kg
- Input Power:** 85-264 VAC, 50/60 Hz (DC Option Available - Contact Factory)
- UV Light Source:** Xenon Flash Used to Generate a Collimated Beam
- UV Flash Life:** 2.5 Years (typical) at Highest Sampling Rate (e.g. 2 Hz)
- Outputs:** Local Status and Alarm Indicators (Red/Green LEDs)
Oil Detection Relay (DPDT), Equipment Status Relay (SPDT)
Serial: USB, RS232, RS485
Current Loop / 0-20 mA (Optional)
- Wireless Options:** Radio, GSM/CDMA Cellular, Wi-Fi, Satellite - Contact Factory
- User Interface:** Sensor Operates Autonomously
Utility Program Used During Set-up and to Adjust Settings
- Base Station:** Slick Sleuth Base Station Software (Optional)
- Certifications:** CE Marked
Conforms to US EPA Standards (EPA/530/UST-90/009)
Technology Patented by InterOcean Systems, Inc.
- Warranty:** 1-Year InterOcean Factory Warranty Standard

Model SS300 -Slick Sleuth Installation Drawing

