



## 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 and 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, coasts, harbors, inland waterways, industrial spillways, over sumps and separators, retention ponds and other environments where oil spill 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 problems such as aquatic/marine bio-fouling or problems associated with debris on oil contaminants thereby assuring continuous operations and significantly reduced maintenance.

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

The detection technology is based on the fluorescence of hydrocarbons - crude oil and refined oil derivatives (lubricants, transformer oils, banker 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. Each detector is completely self-contained incorporating a the high intensity xenon flash, optical detection circuitry, internal processor and logic/control components.



Slick Sleuth SS300  
Oil Leak & Spill Detection System

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 jetty and pier installations where the tides rise and fall, or industrial / storm water sumps systems where the water level also rises and falls intermittently.

Typically one or more Slick Sleuths are strategically located at a facilities to protect against either the accidental discharge of oil, which if undetected would be damaging to environment and waterways, or in some application to protect against the intake of oily water, which could damage plant's process equipment.

Slick Sleuth provides advanced technology for use as an automated early-warning detection system; as a best management practice (BMP) at industrial plants; and as added protection for inclusion in a plants' Spill Prevention Control Countermeasure (SPCC) plans.

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



**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:** 1 +/- 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) -35 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:** 5 Years (typical) at Highest Sampling Rate (e.g. 2 Hz) Local  
**Outputs:** Status and Alarm Indicators (Red/Green LEDs)  
 Oil Detection Relay (DPDT), Equipment Status Relay (SPDT)  
 Serial: USB, RS232, RS485, and MODBUS  
 Current Loop / 0-20 mA  
**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  
 Slick Sleuth Base Station Software (Optional)  
**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, LLC  
**Warranty:** 2-Year InterOcean Factory Warranty Standard

**Model SS300 -Slick Sleuth**

