



OIL SPILL DETECTION SYSTEM

AUTOMATED NETWORK OF OIL DETECTING SENSORS FOR REAL TIME SPILL MONITORING

- 🔥 Sure
- 🔥 Smart
- 🔥 Simple

The Difference Between Small Accidents & Major Disasters

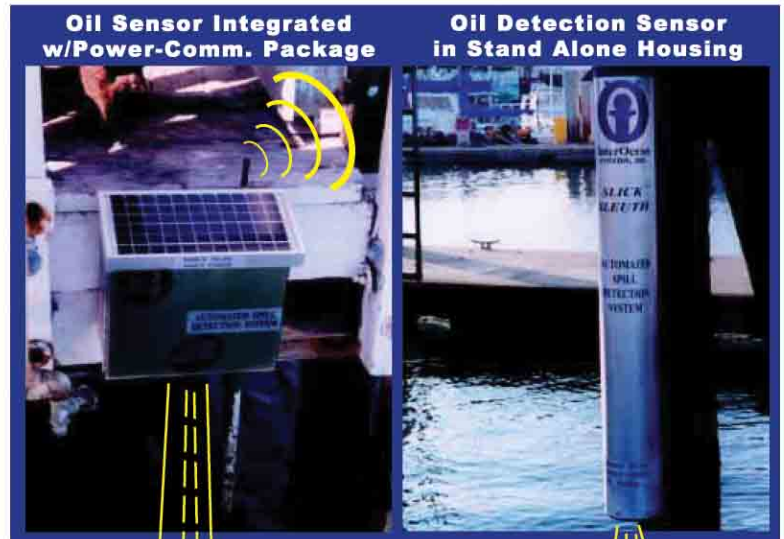
- 🔥 Prevent Disasters
- 🔥 Save Time & Money
- 🔥 Reliable, Cost Effective System

APPLICATION

Monitoring and detecting oil spills as they occur in real-time accelerates response time - thus substantially reducing cleanup/remediation costs, and limiting damage to the environment. Building on 50 years of sensor/systems innovation, InterOcean has developed the optimum solution for this requirement. The *Slick Sleuth*™ Oil Spill Detection System is a highly effective, cost-saving system, which is easy to install and requires no maintenance. Because the oil detection sensor is mounted above the water, maintenance and downtime are virtually eliminated. There is no marine fouling, leaking, exposure to ships, lost moorings, or other liabilities often associated with buoys and in-water sensor packages.

SYSTEM DESCRIPTION

The remote oil spill detection system is comprised of four subsystems: optical sensor, wireless telemetry package, power supply, and base station (laptop with *Slick Sleuth*™ software). Sensor, communications, and power are compactly integrated in a single NEMA 4X enclosure, with the option to repopulate the optical sensor for independent mounting. When installed separately, the sensor resides in its own robust housing for installation nearby, under a pier for example, while the NEMA box can be installed where it receives clear sunlight and radio signal. In either configuration, the downward facing optical transmitter pulses light in a columnated beam that "excites" the water's surface. The resulting fluorescence is detected using multiple filters. If an event is detected, a signal is transmitted to the base station laptop where the resulting alarm alerts users to the type and location of the incident- facilitating an immediate and appropriate response. InterOcean's *Slick Sleuth*™ Software graphically pinpoints the location of the spill, and automatically denotes the type of fluid spilled by matching the frequency of the fluid detected within the known range of spectral signatures unique to differing fuels and pollutants. InterOcean has engineered this system for simplicity, consistency, efficiency, and cost savings!



Sensor Features

- Mounted ABOVE Water Level
- No Fouling, No Water, No Problem!
- 24 Hours—All Weather, Night or Daylight
- Highly Sensitive Detection of Fluorescence
- User-Selected Sampling Frequencies
- Easy to Use & Install
- Automated, Plug n' Play, Turnkey System
- Mounts Under Pier, or Integrated in NEMA*
- 4X Box w/Power & Communications system
- ***Available in Explosion-Proof Enclosures

For Hazardous Type I Locations

Base Station

- Standard Laptop or PC
- Windows Compatible
- InterOcean's *Slick Sleuth*™ Software
- Pinpoints Location & Type of Spill
- Graphic & Tabular Display of Status & Events
- Continuous Printout &/or Data Logging (Optional)
- Fully Automated, User Friendly
- 2-Way Radio Query/Control
- Adaptive Sampling Rates & Frequencies

Communications

- Real-Time Data Telemetry Using:
 - Non Licensed Spread Spectrum Radio
 - Or Cellular
 - Or Telephone
 - Or Satellite
- 1-10 Mile Radio Range
- Bi-Directional Communications
- Laptop Display of Radio Diagnostics/Status

Power

- Low Power Requirements
- Automated Solar Cell Power System
- w/Long-Life Rechargeable Battery
- Compact & Lightweight Integrated Package
- Uninterruptable Power Supply (Optional)



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