

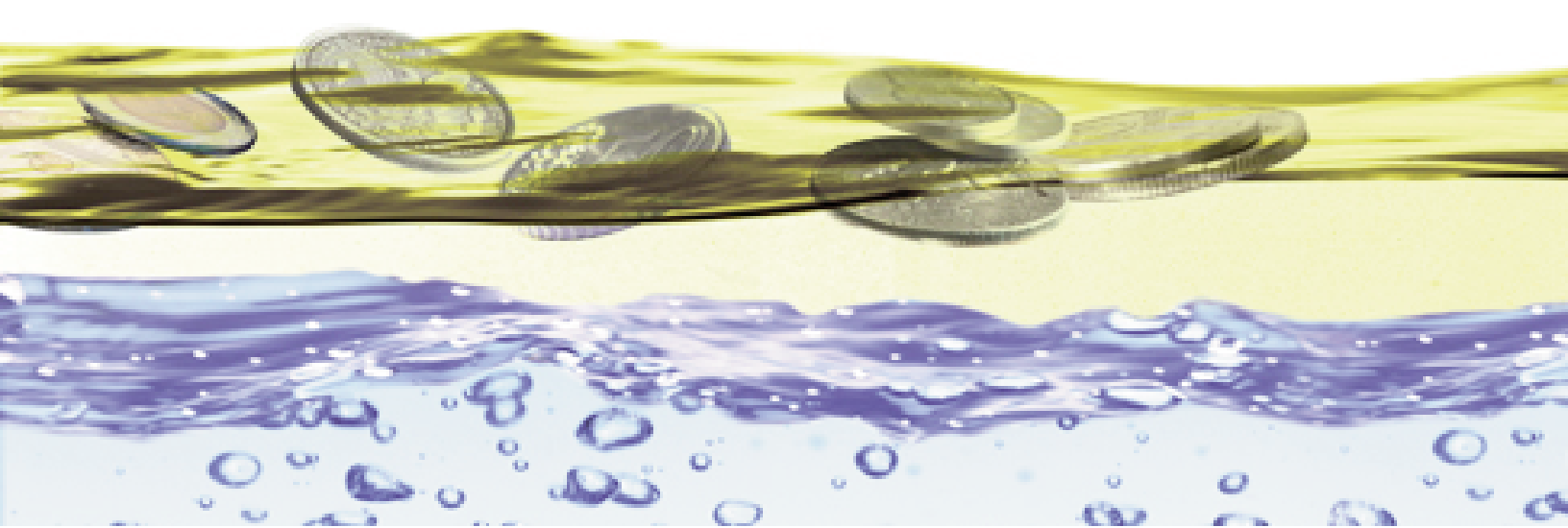
Leakwise Oil-on-Water Detection and Monitoring Systems

*For the reliable detection, monitoring, measurement,
alerting, and control of hydrocarbons on water*



What Leakwise Does for You

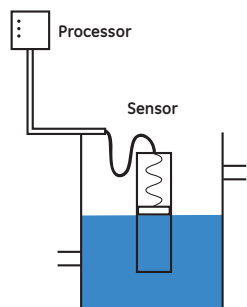
- Provides early warning by continuous, on-line detection of hydrocarbons on water starting at 0.3 mm
- Monitors buildup of hydrocarbons on water
- Provides linear measurement of hydrocarbon layers in the range of 1–200 mm or greater
- Installs easily
- Operates virtually maintenance-free over extended periods of time
- Ensures reliable detection, regardless of:
 - Coating of sensor with dirt or oil
 - Changes in water salinity or temperature
 - Variations in water table
- Conforms to EPA regulations
- Certified for operation in hazardous areas
- Specifications and performance tested and approved by the German TÜV
- Offers convenient, user-adjustable set points of “Low Oil” and “High Oil” for alarm and control
- Displays processor output with two relays and four indicator lights (water/air/oil/ sensor disconnect); optional outputs include 4-20 mA, RS-232/RS-422, a bar graph, and audio alarm
- Sends alarm and status messages via PTP radio, satellite, e-mail, or cellular communication with optional wireless sensor



Leakwise Provides Reliable, Early Detection of Oil Leaks or Spills

Leakwise is the most versatile and reliable sensor system available for oil-on-water detection and monitoring. The Leakwise system can help you avoid expensive downtime, regulatory fines, and cleanup costs by:

- **Detecting** the presence of any type of hydrocarbon on water immediately
- **Monitoring** the buildup of hydrocarbons on water
- **Measuring** hydrocarbon layer thickness with accuracy in the range of 1–200 mm or greater
- **Alerting** facility operators of oil presence or thickness with visual or audible alarms and messages
- **Controlling** skimmers, discharge pumps, and shutoff or diverter valves with a remote or local relay contact



System Components

A Leakwise system consists of a wired or wireless signal processor and one or more sensors, depending on your application needs. The

intrinsically safe sensors work in virtually any type of water. They continue to work even when coated with dirt or oil, thus eliminating false alarms. In fact, Leakwise sensors are designed to perform for years, maintenance-free, without parts replacement.

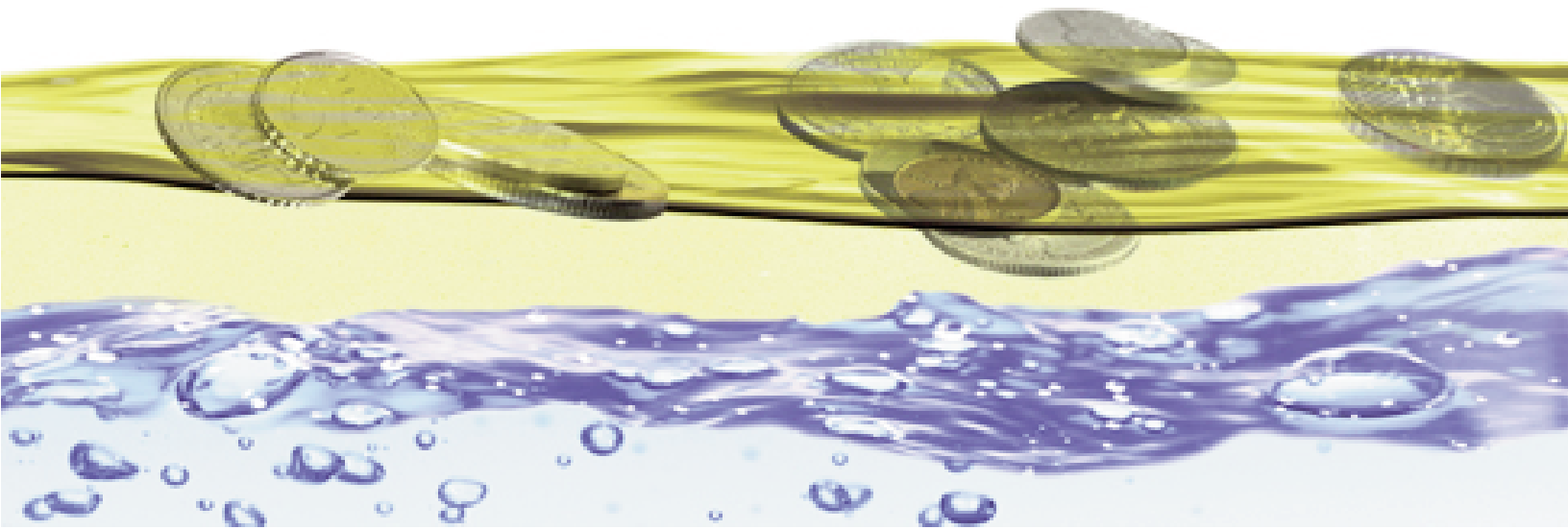
World Class Technology

The Leakwise sensors use a patented, high-frequency Electromagnetic Absorption Technique. Each floating sensor houses a high-frequency electromagnetic energy transmitter and a receiving antenna which continuously monitor the liquid surface.

Since water absorbs more electromagnetic energy than hydrocarbons, changes in the absorption rate of water indicate the presence or buildup of hydrocarbons.

The Leakwise sensors not only enable reliable detection of hydrocarbons, but also provide valid indications of the thickness of the hydrocarbon layers and the percent of water in oily emulsions.

The Leakwise sensors can be used to detect the interface between any two immiscible liquids with different absorption rates. No other oil sheen monitoring system does this.



Industries and Applications

Oil/Petrochemical

- Refining
- Petrochemical
- Oil Storage
- Pipelines
- Gas Stations
- Stormwater Runoff

Power Generation and Distribution

- Fossil
- Nuclear
- Hydroelectric
- Transformer Switchyards
- Remote Substations
- Underground Transmission

Offshore

- Oil Ports
- Rivers/Lakes
- Desalination Intake Protection
- Jetty Terminals
- Monobuoy Terminals

Transport

- Ships
- Airports
- Railways
- Parking Areas
- Highways

Manufacturing

- Steel/Aluminum
- Pulp and Paper
- Edible Oils
- Pharmaceuticals
- Auto Production

Water

- Wastewater Treatment
- Remediation Sites
- Stormwater Monitoring
- Groundwater Monitoring

Leakwise Versatile Sensors and Processors

ID-225

Measures oil thickness for oil/water separators, oil traps, wet sumps, tanks, ponds, and monitoring wells.



ID-227

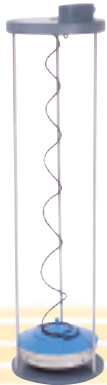
Works in a variety of marine and open water applications.



ID-223/2000



ID-223/2500



ID-223/500

ID-223

Operates in dry and wet sumps, open channels, and catch basins.

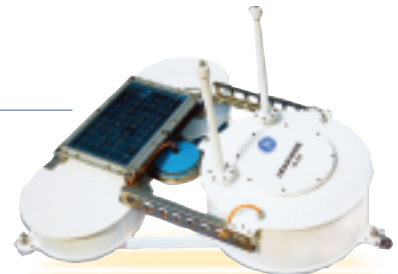


ID-221

Detects floating oil sheens in wet sumps, tanks, ponds, and monitoring wells.

ID-227WL

Provides wireless monitoring near offshore oil rigs and other open water areas.



PS-220

Analog single sensor control



PS-220 Weather Proof



PS-220 Explosion Proof

Versatile Signal Processors

Available for all Leakwise Sensors

DSP-220

Digital multiple sensor control



WSP-220

Digital wireless sensor control





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