



# Leakwise Oil-on-Water Detection and Monitoring Systems



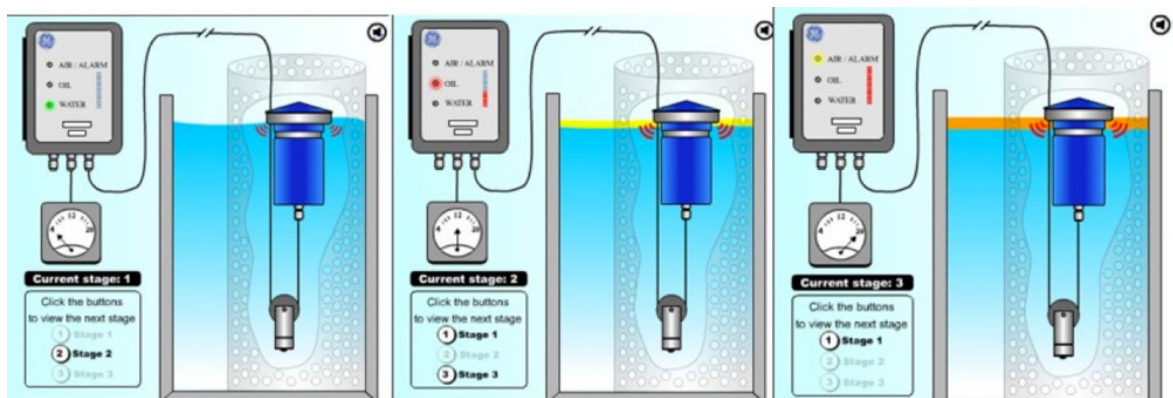
GE's Leakwise\* Sensors use a High-Frequency, Electromagnetic, Energy Absorption technique. Each floating sensor houses a high-frequency electromagnetic energy transmitter and a receiving antenna which continuously monitors the liquid surface.

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

Leakwise Sensors not only enable reliable detection of hydrocarbon presence, but also provide valid indication of the thickness of the hydrocarbon layer and the percent of oil in oily water emulsions.

## What Leakwise Does for You

- Provides early warning with continuous detection of hydrocarbons on water starting at 0.3 mm
- Monitors buildup of hydrocarbons on water
- Provides linear measurement of hydrocarbon layer growth in the range of 1–200 mm
- Installs easily and quickly
- 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
- Displays processor output with five (5) relays and five (5) indicator lights (water/air/oil/high oil/sensor disconnect); 4–20 mA, RS-485 Modbus, and optional LCD touch panel
- Sends alarm and status messages via cellular communication or PTP with optional wireless sensor



# Leakwise Versatile Sensors and Processors

**ID-225**

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



ID-223/2000



ID-223/2500

**ID-223/500**



**ID-223**

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

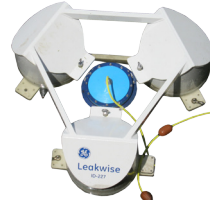
**ID-221**

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



**ID-227**

Works in a variety of marine and open water applications.



**ID-227WL/PTP**

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



PS-220 Weather Proof



PS-220 Explosion Proof

**Versatile Signal Processors**

**PS-220**

Analog single sensor control

**SLC-220**

Digital multiple sensor control



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For more information, visit:

[www.geinstruments.com/leakwise](http://www.geinstruments.com/leakwise)

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