LEAKWISE®
Oil on Water Detection & Monitoring

Agar Environmental Ltd.
Data Sheet

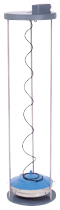
Leakwise Oil-on-Water Monitoring Systems

Leakwise Oil-on-Water Monitoring and Detection System includes a sensor (ID-22X) and a controller. As environmental concerns mount regarding our global water resources, Leakwise oil-sheen and thickness monitors provide advanced technology solutions for the early detection, containment, and mitigation of water pollution events. Oil refineries, tank farms, pipelines, power generation, and distribution represent a few of the industries benefiting from Leakwise technology.

Our Leakwise oil detection sensors use high-frequency, electromagnetic energy absorption, floating sensors—which enable reliable monitoring of hydrocarbon on water regardless of dirt or oil coating the sensor or changes in water level, temperature, or salinity. Usually an annual cleaning and calibration is adequate.

Leakwise ID-22X Sensors

ID-221: Sheen detector for 0.3–25 mm (.01–1 in) non-linear thickness measurement, water level variation 30–300 cm (1–100 ft), maximum flow velocity 20 cm/sec (8 in/sec). Must have a minimum level of 30 cm (12 in) water at all times.



ID-223/500: Sheen detector for 0.3–20 mm non-linear thickness measurement, water level variation 40–500 mm (1.5–20 in), maximum flow velocity 60 cm/sec (2 ft/sec). Sump can be dry.

ID-223/2000: Sheen detector for 0.3–20 mm non-linear thickness measurement, water level variation 70–2,000 mm (0.25 in – 6.5 ft), maximum flow velocity 60 cm/sec (2.0 ft/sec). Sump can be dry.

ID-223/2500: Sheen detector for 0.3–20 mm non-linear thickness measurement, water level variation 70–2500 mm (2.8–8.2 ft), maximum flow velocity 60 cm/sec (2 ft/sec). Sump can be dry.

ID-225: Thickness monitor for 1–100 mm (.01–4 in) or 1–200 mm (.01–8 in) linear thickness measurement, water depth 30–5,000 cm (1–150 ft), maximum flow velocity 20 cm/sec (8 in/sec). Must have a minimum level of 30 cm (12 in) water at all times.

ID-227: Sheen detector for 0.3–20 mm non-linear thickness measurement, offshore sensor designed to handle waves up to 2 m (6 ft), with a maximum flow velocity four knots (2 m/sec or 6.5 ft/sec).

Note: Stilling wells are required for most sensors to reach maximum velocity specification

Leakwise Controllers

SLC-220: Digital signal processor reports hydrocarbon spill/leak alerts to users via a wide variety of outputs—five (5) relays, 4–20 mA, RS-485 Modbus, GSM and local status indicator lights. The SLC-220's modular design and flexible configuration provides solutions for all specific customer needs. It can be AC or DC line or battery powered. The SLC-220 supports up to four (4) Leakwise sensors per unit.

PS-220: Analog controller which includes three (3) relays and local status indicator lights. The 4–20 mA output and local bar graph are optional. It can be AC or DC line or battery powered. The PS- 220 supports one (1) Leakwise sensor.

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