

Product

OPTIMARE 
A Member of Aerodata Group

OPTIMARE SpillWatch!®

OPTIMARE SpillWatch!® Ex (ATEX Version)

Non-contact oil spill detection and alarm

FEATURES

- Real-time around-the-clock detection and control of oil spills for
 - Petrochemical industry, pipelines
 - Power plants
 - Harbors
 - Desalination, intake protection
 - Aquaculture
- Highly effective LED-based excitation
- Based on fluorescence excitation and detection
- Ruggedized design (IP66)
- Cost - effective, low - maintenance
- Multiple interfaces network connectivity



Product Line

The industry-proven OPTIMARE SpillWatch!® forms the basis of a product line encompassing various non-contact oil-on-surface detectors for different application areas. OPTIMARE SpillWatch!® is also available as long-range (LR) version for distances of up to 30 meters. OPTIMARE SpillWatch!® and its LR version are also available as ATEX-compliant „Ex-proof“ variants. For further information please get in touch with OPTIMARE.

Application

The detection of oil, including crude oil, diesel/fuel oil, motor oil, lube oil, gasoline, food oils etc. spilled to the water or land surface is widely required in industrial and environmental applications. A timely alert enables countermeasures not only limiting damage to the environment but also reducing cost for remediation and clean-up.

Technique

The OPTIMARE SpillWatch!® sensor is installed downward-looking, several meters above the surface. The sensor technology is based on fluorescence excitation and detection. Its innovative optical set-up and all-solid-state opto-electronic components guarantee high sensitivity and allow low-maintenance operation. The system automatically filters out ambient conditions (e.g. sunlight), providing highly reliable detection under all light, weather and surface conditions.

Action

In case of a spill, the OPTIMARE SpillWatch!® provides an instant warning, enabling users to take countermeasures, e.g. shutting off pumps or valves and notify personnel via a variety of interfaces and wireless options. The OPTIMARE SpillWatch!® is designed and manufactured for deployment in rugged settings.

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SPECIFICATION	
Sensor specifications	
Sensor principle	Detection of fluorescing oil components
Range	1.5 - 10.0 m (depending on oil type), best performance within 2 - 5 meters
Background compensation	Constant or adaptive
Alarm settings	Customizable, independently for both on and off status
Communication/Interface	
User interface	RS232 serial interface and SpillControl Software
	Direct connection only necessary for initialization
Signal output	2 relay contacts (detect/no detect and status)
	4 - 20 mA
	0 - 10 VDC
Mechanical properties	
Dimensions	300 mm x 300 mm x 170 mm
Mass	8 kg
Enclosure	IP 66, weatherproof stainless steel housing
Power supply	
Voltage	12-24 VDC (Standard)
	100 - 240 VAC; 50 - 60 Hz
Power consumption	10 Watt typical
Power options	Solar and/or wind-powered
Operating/Storage conditions	
Operating temperature	-10 °C to + 45 °C
	Lower/higher temperature options available
ATEX version	II 3(1)G Ex nR [op is Ga] IIC T4 Gc