

OL - LSM

High Performance leaks sensor module



Description

The OL-LSM is a high-performance data acquisition module designed to detect leaks of refined products or crude oil in extreme environmental conditions. The product is offered in a 2-module 35mm DIN rail housing. The measurement interface is suitable for connection to a reusable, fully passive hydrocarbon probe or detector manufactured by OmniLeak. The maximum length of the sense cable is limited to 20m/65ft. Advanced measurement techniques as well as data processing algorithms are used to provide fast detection over a very wide temperature range. These detection modules offer industry standard analog outputs (0-10V), dry contacts or current loop (4-20mA) for flexible integration with third-party monitoring stations or PLCs. For use in hazardous areas, the OL-HCS sensor cable must be connected to the detection module via a Zener barrier, with the OL-LSM module installed in the safe area.



Photos and illustrations are not contractually binding and are subject to change without notice.

Typical detection time at 20 °C:

Unleaded Gasoline:	2 minutes
Diesel/ Jet Fuel:	5 minutes
Light Crude Oils:	10-14 minutes
Motor/Silicone Oils:	20-35 minutes
Bunker C Oil:	55-90 minutes

Features and Benefits

- Reusable after contamination
- Real-time transmission of sense cable contamination
- Dynamic monitoring of sense cable contamination •Adjustable alarm threshold
- Reliably detects all crude oils at very low temperatures
- Very wide operating temperature range
- Capable of detecting vapours diffused into the ground after leaks from underground pipes

Typical Applications

- Remote oil and gas facilities
- Monitoring military and scientific fuel depots, generators and pipelines in demanding environmental conditions
- Leak detection in refineries, tank farms, shut-off valves, main pipeline sections
- Monitoring of isolated fuel tanks and emergency generators
- Fuel leak detection in distribution and retail facilities

Typical Detection time at 20° C with OL-HCS sensor cable

Unleaded Gasoline	1 minute 20 seconds
Diesel	2 minutes
Jet Fuel	2 minutes
WTI / WTS	6-7 minutes
Dilbit AWB	11-12 minutes
Oil C	45-55 minutes

Technical Data

Dimensions (leader cable not included)	36 x 85 x 58 mm (1.42 x 3.35 x 2.28 in)
Weight	225g (0.5lb)
Fire Rating	UL94-HB
Ingress Rating (with connector)	IP10/NEMA 1 - Indoor use only
Operating Temperature Range	-25° C to +65° C
Power Supply Voltage Range	12 - 24 VDC Class 2
Power Consumption	30mA max.
Mounting	Inside an electrical cabinet or a suitable box
Compatible Sensors	OL-HCS

Warning! This product shall only be used with OMNILEAK brand passive sensors. The use with non- sensors will lead to unpredictable results and may compromise the electrical safety of the product. Any deviation from the specified conditions of use is strictly prohibited.

Product Codes



OL-HCS

Passive Sensor cable for hydrocarbons, with male/female heavy-duty connectors

Manufacturer

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Certifications



Valid only when used with the appropriate certified acquisition devices

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