

OL-HCM

OmniLeak Hydrocarbon Module



Description

OL-HCM is an intrinsically safe acquisition module with embedded intelligent thresholding designed specifically for reliable detection of unwanted presence of fuels and motor/hydraulic oils in indoor or outdoor conditions. The measurement frontend is engineered for interfacing with passive liquid hydrocarbon sensor cables and probes not exceeding 15 m / 50-ft. With several sensor modules and their individual sensor sections connected to the OL-HCM modules, this device provides a true multi-leak capability. Advanced measurement techniques and data treatment algorithms are used to provide quick detection in a wide temperature range. The status of the module is indicated by embedded LED for instant identification of the section in alarm. The module provides leak alarm level allowing adjustable thresholding from the associated monitoring panel.

OL-HCM is communicating with the monitoring equipment through a proprietary



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multi-level proprietary bus allowing reliable communication over distances exceeding 3.2 km / 2 miles. Compatible OmniLeak controllers are listed on the next page.

Features and Benefits

- Detects reliably fuels and viscous hydrocarbons
- True multi-leak capability
- Provides leak alarm level
- Intelligent thresholding
- Low power consumption for reliable remote monitoring over long distances
- Wide operating temperatures range

Typical Applications

- Monitoring of diesel generators and associated tanks and pipework
- Monitoring of Military and Scientific fuel depots in demanding environmental conditions
- Leak detection in commercial buildings, hospitals, data centers, etc.
- Monitoring of oil-filled power transformers, lube oil storage tanks, etc.

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

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

Technical Data

Dimensions (leader cable not included)	80 mm x diam. 25 mm (3.2-in x diam. 1-in.)
Weight	105 g (0.23 lb.)
Fire Rating	UL94-HB (UL94-V0 available on request)
Ingress Rating (with connector)	IP68/NEMA4X - suitable for outdoor installation (short-term water immersion only)
Operating Temperature Range	-25°C to +100°C
Power Supply Voltage Range	12 - 20 VDC Class 2 Load side only
Power Consumption	20mA max.
Mounting	Free-hanging (wall- or floor-mounted with suitable brackets)
Compatible Controllers	OL-ASAT7, OASAT12, OL-ECAT7, OL-ECAT12
Compatible Sensors	OL-HCS
Hazardous Locations Classification	TBD

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-HCM

Acquisition module 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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