

## FLD-SSMH-DS

## Control and Monitoring Device for Panel Mount

FLD-SSM-H is a high-performance all in one monitoring module and controller built into one budget conscious package. Designed for detecting leaks of refined products or crude oil in extreme environmental conditions. The device is a DIN-rail mounted standalone leak detection controller.

The maximum sensor length is limited to 100ft/ 30m per FLD-SSMH.

These sensor modules (FLD-SSM) offer industry-standard output communications:

- analog outputs (0-10V)
- dry contacts (2 SPDT Relays)
- RS-485 serial interface
- current loop (4-20mA)

For hazardous locations applications, the sensor cable FLD-HSC or FLD-O2W-SP sensor probe will be wired to the sensor module through a Zener barrier, with FLD-SSMH module installed in an area approved enclosure. Please contact Naftosense for additional information.

### Features and Benefits

- Detects reliably all North-American crude oils at very low temperatures
- Real-time transmission of cable contamination
- Dynamic tracking of the sensor contamination
- Adjustable alarm threshold
- Very wide operating temperatures range
- Able to detect the vapors diffused in the soil after spill from underground pipes
- 10-year warranty



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### Typical Applications

- Leak detection in Oil & Gas facilities
- Detection of leaking fuel from airport hydrant systems, military, and custody transfer installations in harsh outdoor, demanding environmental conditions
- Leak detection in refineries, tank farms, mainline pipe sections, or repair sites
- Leak detection in refineries, tank farms, block valves, mainline pipe sections
- Leak detection in downstream and fuel retail facilities

### Agency Approvals

Approved for use in:

- In the US: Intrinsically safe - Class I, Division 1, Groups A, B, C and D, Class I, Zone 0, AEx ia IIC
- Atex: Intrinsically safe - II 1 G, Ex ia IIC Gb T4
- IECEx: Intrinsically safe - Ex ia IIC Gb T4
- Tested by FM Approvals for compliance as per FM Class 3610

### Technical Information - Sensor Module FLD-SSMH-DS

Typical Detection Time at 68°F (20°C) with FLD-HSC Sensor Cable	
Unleaded Gasoline	1 minute 20 seconds
Diesel	2 minutes
Jet Fuel	2 minutes
WTI/WTS	6 to 7 minutes
Dilbit AWB	11 to 12 minutes
Bunker C oil	45 to 55 minutes

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Technical Data	
Dimensions	1.42" x 3.35" x 2.28" (36 x 85 x 58 mm) - 2-module DIN
Weight	0.5 lb. / (225 g)
Fire Rating	UL94-HB
Ingress Rating	Panel: IP10/NEMA 1 - indoor use only
Operating Temperature Range	-13°F to 149°F (-25°C to +65°C)
Power Supply Voltage Range	12 - 24 VDC Class 2 Circuit / 24 VDC only for FLD-SSM-H420
Battery Operating Life	10 years minimum
Maximum Length of Cable	Sensor Cable FLD-HSC: 100 ft (30 m) Leader Cable (AWG22 min): 1000 ft (300 m)
Power Consumption	30mA maximum
Mounting	DIN-rail mounted inside electric cabinet or suitable enclosure
Warranty	10 years

Attention! FLD-SSM panel is approved by accredited certification organization for worldwide safe use in both residential and industrial environments. For additional information, please contact Naftosense.

Product Codes	
FLD-SSM-HR2	Monitoring module for passive sensor cable or probe for detecting non- polar liquids, with 2 SPDT relay outputs
FLD-SSM-HR2-010	Monitoring module for passive sensor cable or probe for detecting non- polar liquids, with 0-10V output and 2 SPDT relay outputs

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Product Codes	
FLD-SSM-H420	Monitoring module for passive sensor cable or probe for detecting non- polar liquids, with 3-wire current loop 4-20mA output
FLD-SSM-HR1-485	Monitoring module for passive sensor cable or probe for detecting non- polar liquids, with RS-485 interface and 1 SPDT relay output