

## FLD-SMP-MB

### Control Module for Panel Mount

FLD-SMP-MB is a high-performance controlling module designed for mounting in your existing or new enclosure. It was specially designed to interface with Naftosense ERBUS proprietary communications and low voltage power to related monitoring modules. FLD-SMP-MB offers convenient DIN-rail mounting in any approved enclosure.

Each individual FLD-SMP-MB can be connected to 50 monitoring modules. Each monitoring module can be connected to up to 8 individual sensors not exceeding 82 ft (25 m) each. Because the ERBUS provides both power and communications you can connect monitoring modules to the proprietary bus eliminating the need of additional infrastructure. The maximum distance covered with wired layout(sensor and jumper) is more than 2 miles!

With optional loopback wiring increases the system reliability in case of individual cable breaks and shorts. High-level interfacing to DCS/SCADA is implemented through the RS-485 serial output with Modbus RTU, or through two dry contacts - one SPDT relay for leak alarms, and a second SPDT relay for trouble/power failure.

FLD-SMP-MB must use a Zenner Barrier and mounted in an approved enclosure for classified locations. Designed to be used with all Naftosense sensing cables and point sensors. Compatible monitoring modules are FLD-MXM and FLD-FBS.

### Features and Benefits

- Extremely long range of leak detection circuit monitoring
- Easy T-branching – no special devices/components needed
- Dynamic tracking of sensor contamination
- Adjustable alarm threshold
- Very wide operating temperatures range
- Able to interface with acquisition modules for various types of liquids and vapors as water, acids, bases, hydrocarbons, alcohols, ketones, etc.
- 10-year warranty



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### Typical Applications

- Pipe sections in remote facilities
- Detection of viscous hydrocarbons in substations, pumping stations, etc.
- Detection of leaking fuel from airport hydrant systems, military, and custody transfer installations in harsh outdoor, demanding environmental conditions
- Leak detection in data centers and commercial buildings

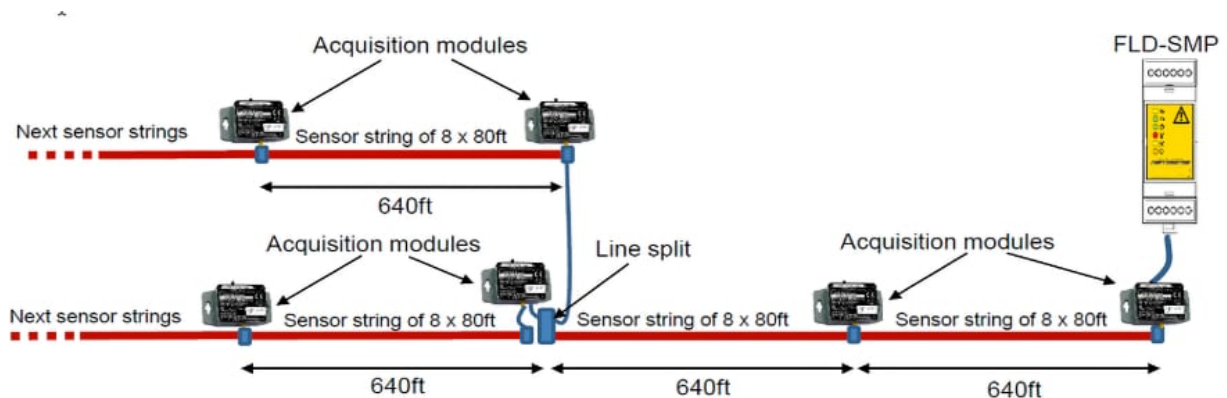
### Agency Approvals

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 Monitoring Module FLD-SMP-MB

### Typical Installation of FLD-SMP-MB Connected to Monitoring Modules Supporting Hydrocarbon Sensing Cables:



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Model	View	Description
FLD-MXM (all versions)		Long-range multiplexed Monitoring module for monitoring of up to 8 sensing cables or probes for detecting hydrocarbons in both indoor and outdoor environment. Maximum length of sensor string per acquisition module: 400 ft (120 m)
FLD-FBS (all versions)		Long-range monitoring module with flexible wiring options and programmable detection algorithms for monitoring of up to 8 sensors for detecting hydrocarbons in both indoor and outdoor environment. Maximum length of sensor string per acquisition module: 400 ft (120 m)

Technical Data	
Dimensions	1.42" x 3.35" x 2.2" (36 x 85 x 58 mm) – 2-module DIN
Weight	0.5 lb (225 g)
Fire Rating	UL94-HB
Ingress Rating	IP10/NEMA 1 – indoor use only
Operating Temperature Range	-13°F to 149°F (-25°C to +65°C)
Power Supply Voltage Range	24 VDC Class 2 Circuit
Mounting	DIN-rail mounted inside electric cabinet or suitable enclosure
Maximum Length of Cable	Accumulated Length of Sensor and Leader Cable: 4000 m
Power Consumption	60mA max.
Warranty	10 years

Attention! FLD-SMP-MB module is approved by accredited certification organization for worldwide safe use in both residential and industrial environments. It is fully compliant to UL61010-1 and CSA C22.2 No.61010-1 as well as to IEC61010-1 with specific worldwide national differences.

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Product Codes	
FLD-SMP-MB-2R	Control module for up to 50 monitoring modules for detecting hydrocarbons, with Modbus RTU and 2 SPDT relay outputs. Compatible modules: all ERBUS-compatible acquisition modules from Naftosense (FLD-FBS and FLD-MXM)