

FLD-SMP-MB

Control Module for Long Line Leak Detection

The FLD-SMP-MB offers the high-performance control module designed to be din rail mounted in your NEMA rated enclosure. FLD-SMP-MB Long range control Module capable of running up to 50 Monitoring Modules and up to 2.5 miles of sensing cables. 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.



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, TCP/IP (with protocol converter), 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
- Modular design for easy assembly and integrating additional components
- Adjustable alarm threshold
- Stand-alone controls for remote installations
- Din rail mounted, low voltage control options to fit in existing control and power enclosures
- Made-to-order options available on all standard controls offerings
- 10-year warranty

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

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Communication Made Easy

Utilize your existing network when integrating a Naftosense leak detecting system. Compatible with any wireless and wired system via a host of standard communication protocols:

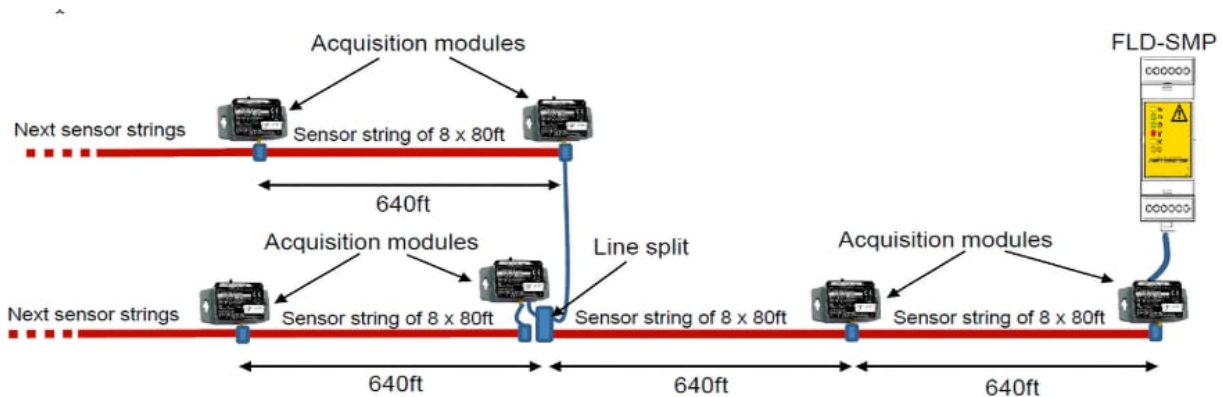
- Modbus RTU (RS-485)
- Dry Contact
- TCP/IP (with protocol converter)

Agency Approvals

- Class 2 device, tested for compliance with ANSI/UL 61010-1

Technical Information Monitoring Module FLD-SMP-MB

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



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)

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Model	View	Description
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.

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)
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