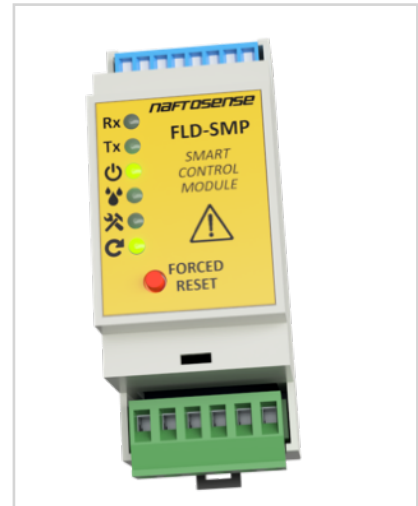


FLD-SMP-MB-420**ERBUS-Compatible Control Module**

The FLD-SMP-MB-420 is a high-performance controlling module designed for Polar Solvents or Hydrocarbon leak sensors. The Din rail mounting in your existing or new enclosure. Specially designed to interface with ERBUS proprietary communications and low voltage power to related monitoring modules. FLD-SMP-MB-420 offers convenient DIN-rail mounting in any approved enclosure.

FLD-SMP-MB-420 is designed to be connected to one FLD-MXM-4-PS monitoring module, connected to one polar solvents or hydrocarbon sensor. Because the ERBUS provides both power and communications you can connect the monitoring module to the proprietary bus eliminating the need of additional infrastructure. The maximum distance covered with wired layout (sensor and jumper) is up to 1 mile.



High-level interfacing to DCS/SCADA is implemented through 4-20 mA output or Modbus RTU. Two dry contacts are also available.

FLD-SMP-MB-420 must use two Zener barriers and be mounted in an approved enclosure for classified locations. Designed to be used with all ERBUS-enabled acquisition modules. The reset of leak alarms can be forced manually, or through a specialized command sent through the Modbus RTU interface.

Features and Benefits

- Extremely long range of leak detection circuit monitoring
- 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.
- Will not report leaks from any exposure to water, ground water, rain, snow, or ice.
- 10-year warranty

FLD-SMP-MB-420

ERBUS-Compatible Control Module

Typical Applications

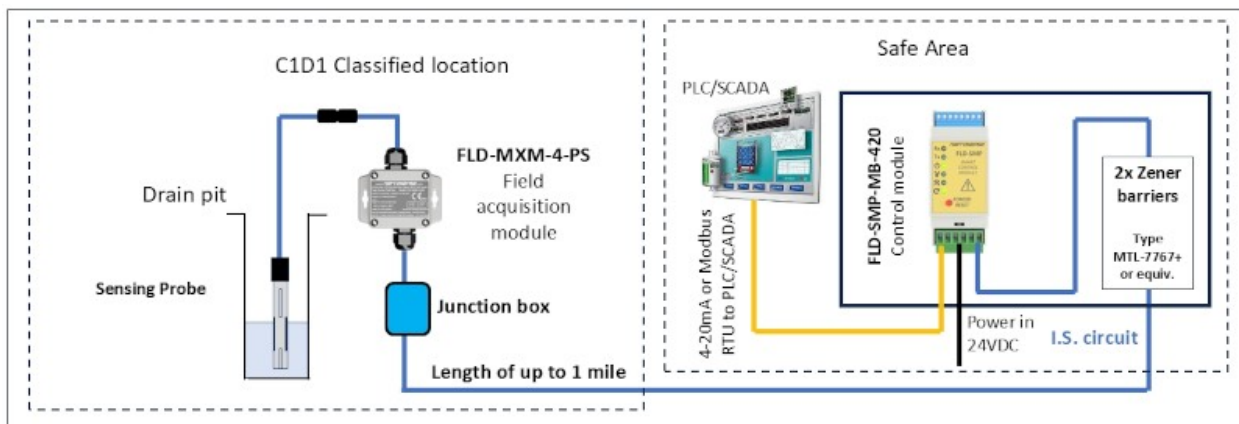
- Ethanol and hydrocarbon leak detection in Oil & Gas facilities
- Pipe sections in remote facilities
- Detection of viscous hydrocarbons in substations, pumping stations, etc.
- Detection of leaking fuel from airport hydrant systems, military, and custody transfer installations in harsh outdoor, demanding environmental conditions
- Distillery leak detection

Agency Approvals

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

Technical Information

Typical Application for Ethanol or Hydrocarbon Leak Detection



Technical Data	
Dimensions	1.42" x 3.34" x 2.28" (36 x 85 x 58 mm) - 2-module DIN
Weight	5.3 oz (150 g)
Fire Rating	UL94-V0
Ingress Rating	IP10 - indoor use only, for integration
Operating Temperature Range	-23°F to 149°F (-25°C to 65°C)
Power Supply Voltage Range	24 VDC Class 2 Circuit

FLD-SMP-MB-420**ERBUS-Compatible Control Module**

Technical Data	
Operating Temperature Range	-23°F to 149°F (-25°C to 65°C)
Power Supply Voltage Range	24 VDC Class 2 Circuit
Maximum Length of Cable	Accumulated Length of Sensor and Leader Cable: 1 mile
Power Consumption	60mA max.
Mounting	DIN-rail mounted inside electric cabinet or suitable enclosure
Warranty	10 years

Attention! FLD-SMP-MB-420 module is approved by accredited certification organization for worldwide safe use in both residential and industrial environments. It is fully compliant to IEC61010-1 with all specific national differences.

Product Codes	
FLD-SMP-MB-420	Control module for the detection of leaks of polar solvents on a single sensor, with Modbus RTU, three-wire 4-20 mA interface, 2 SPDT relay outputs and latching alarm / forced reset function.