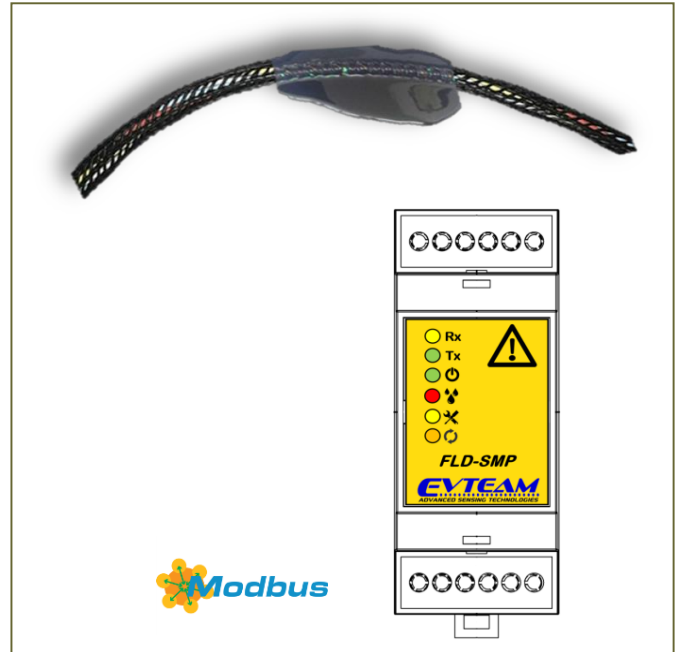


Document number: FLD-SMP-MB1-DS-190930.pdf

Description

FLD-SMP-MB1 is a high-performance monitoring module designed for detecting leaks of non-conductive liquids in extreme environmental conditions. It was specially designed to interface with EVTeam long-range proprietary bus. The device is offered in DIN-rail mounted enclosure and its primary use is to allow the use of detection strings for hydrocarbons or solvents of up to 2.5 kilometers. The communication frontend permits robust and reliable operation even in case of partial failure of the communication nodes of FLD-FB64-LR types. Each individual node can be connected to up to 16 individual sensors of up to 30 meters each. With several field boxes FLD-FB64-LR installed in the field to the proprietary bus, the need of additional infrastructure is considerably reduced. The maximum distance covered with wired layout is in excess of 4 kilometers and the optional loopback wiring increases the system reliability in case of cable breaks and shorts.

High-level interfacing to DCS/SCADA is implemented through the RS-485 serial output with Modbus RTU. General alarm relay is also available.



Photos and illustrations are not contractually binding and are subject to change without notice.

Approvals:



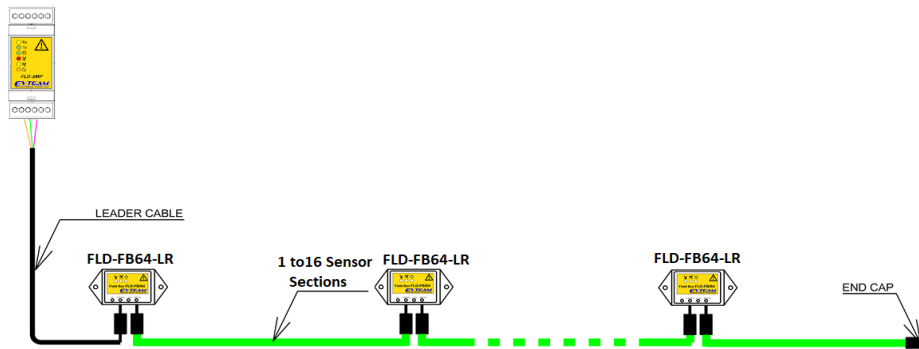
Features and Benefits

- Very long range of leak detection string
- 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 sensor modules for various types of liquids and vapors as water, acids, bases, hydrocarbons, alcohols, ketones, etc.

Typical Applications

- Pipe sections in remote facilities
- Monitoring of Military and Scientific fuel depots, generators and pipeworks
- Leak detection in data centers and commercial buildings
- Pipe-in-pipe leak detection for district heating/cooling applications

Typical Application for Hydrocarbon Leak detection



Technical Data

Dimensions	36 x 85 x 58 mm (1.42 x 3.35 x 2.28 in.) – 2-module DIN
Weight	225 g (0.5 lb.)
Fire Rating	UL94-HB
Ingress Rating	IP10/NEMA 1 – indoor use only
Operating Temperature Range	-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: 4000 m
Power Consumption	60mA max.
Mounting	DIN-rail mounted inside electric cabinet or suitable enclosure

Attention! FLD-SMP-MB1 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-MB1	Monitoring module for up to 50 field boxes FLD-FB64-LR for detecting leaks of non-conductive liquids, with Modbus RTU and 1 SPDT relay output
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Manufacturer

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EVTeam Corp. is ISO-9001:2015 registered company.