

FLD-SMC

High-Performance Leak Detection Controller

FLD-SMC is a high-performance all in one monitoring controller built into one budget conscious package. It is designed for detecting leaks of refined petroleum products and solvents in extreme environmental conditions when installed with approved sensors FLD-HSC-TL and FLD-O2W-SP. The device is a wall-mounted standalone leak detection controller. The maximum sensor length is limited to 150-ft/45 m per FLD-SMC distributed in three separate zones.

These leak detection controllers (FLD-SMC) offer industry-standard output communications:

- Modbus RTU
- Modbus TCP
- Dry contacts (2 SPDT Relays)

For classified locations applications, the sensor cables and the sensor probe will be wired to the controller through a Zener barrier, with FLD-SMC module installed in an area approved enclosure.

Features and Benefits

- Detects very quickly leaks of combustible liquids in a very wide temperature ranges in under 30 seconds!
- 10-Year Factory Warranty on Controls & sensors
- Provides indication of the leak magnitude (LCD and Modbus versions only)
- Able to detect the vapors from refined fuels.
- The only FM7745 approved leak detection controller with adjustable alarm threshold allowing you the most rapid alarm to leaks

Typical Applications

- Leak detection around generators, Subbase tanks, day tanks, and supply and return plumbing in Data Centers, Industrial Facilities, Hospitals and Commercial buildings
- Detection of leaking fuel oil from boiler installations, Fuel oil storage, and supply and return plumbing
- Fuel / Oil on water Leak detection in outdoor containment areas and sumps



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

Approvals:



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Typical Detection Time at 68°F (20°C)

Unleaded Gasoline	20-22 seconds
Diesel	25-28 seconds
Jet Fuel	25-28 seconds

Performance tested and validated by FM Approvals.

Technical Data

Dimensions	5.3" x 3" x 2" in (135 x 75 x 50 mm)
Weight	0.5 lb. (225 g)
Fire Rating	UL94-HB
Ingress Rating	Panel: IP40/NEMA 1 - indoor use only
Operating Temperature Range	14°F to 140°F (-10°C to +60°C)
Power Supply Voltage Range	100-240 VAC or 12-24 VDC
Maximum Length of Cable	Sensor Cable: 50 ft. (15 m) up to three individual sensors per controller. Leader/jumper cable (AWG22 min): 30 ft. (90 m)
Power Consumption	1.5VA / 1.2 W max.
Mounting	Wall-mounted

Attention! The FLD-SMC controller is approved by Factory Mutual and shall be installed according to the installation instructions provided by NAFTOSENSE. Deviation from these instructions may impact the electrical safety and will invalidate the relevant FM certification.

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Product Codes	
FLD-SMC-LCD-VAC	Leak detection controller for hydrocarbon and solvent leaks, up to three sensors, with LCD and 2 SPDT relays. Power Input: 100 – 240 VAC
FLD-SMC-LCD-VAC-485	Leak detection controller for hydrocarbon and solvent leaks, up to three sensors, with LCD, Modbus RTU and 2 SPDT relays. Power Input: 100 – 240 VAC
FLD-SMC-LCD-VAC-TCP	Leak detection controller for hydrocarbon and solvent leaks, up to three sensors, with LCD, Modbus TCP and 2 SPDT relays. Power Input: 100 – 240 VAC
FLD-SMC-LCD-DC	Leak detection controller for hydrocarbon and solvent leaks, up to three sensors, with LCD and 2 SPDT relays. Power Input: 12-24 VDC
FLD-SMC-LCD-DC-485	Leak detection controller for hydrocarbon and solvent leaks, up to three sensors, with LCD, Modbus RTU and 2 SPDT relays. Power Input: 12-24 VDC
FLD-SMC-LCD-DC-TCP	Leak detection controller for hydrocarbon and solvent leaks, up to three sensors, with LCD, Modbus TCP and 2 SPDT relays. Power Input: 12-24 VDC
FLD-SMC-VAC	Leak detection controller for hydrocarbon and solvent leaks without display, single sensor, 2 SPDT relays. Power Input: 100 – 240 VAC
FLD-SMC-VAC-485	Leak detection controller for hydrocarbon and solvent leaks without display, up to three sensors, Modbus RTU and 2 SPDT relays. Power Input: 100 – 240 VAC
FLD-SMC-VAC-TCP	Leak detection controller for hydrocarbon and solvent leaks without display, up to three sensors, Modbus TCP and 2 SPDT relays. Power Input: 100 – 240 VAC
FLD-SMC-DC	Leak detection controller for hydrocarbon and solvent leaks without display, single sensor, 2 SPDT relays. Power Input: 12-24 VDC
FLD-SMC-DC-485	Leak detection controller for hydrocarbon and solvent leaks without display, up to three sensors, Modbus RTU and 2 SPDT relays. Power Input: 12-24 VDC
FLD-SMC-DC-TCP	Leak detection controller for hydrocarbon and solvent leaks without display, up to three sensors, Modbus TCP and 2 SPDT relays. Power Input: 12-24 VDC