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INTEGRATED THERMAL SOLUTIONS

Description

DAG-LSM is a high-performance all in one monitoring module and controller built into one budget conscious package. Designed for detecting leaks of refined products or crude oil in extreme environmental conditions. The device is a DIN-rail mounted standalone leak detection controller. The maximum sensor length is limited to 25m per DAG-LSM.

These sensor modules (DAG-LSM) offer industry-standard output communications:

- analog outputs (0-10V)
- dry contacts (1 or 2 SPDT Relays)
- RS-485 serial interface
- current loop (4-20mA)

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

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

Approvals:

CE FC IECEE CB SCHEME

Features and Benefits

- Detects reliably viscous crude oils at very low temperatures
- Real-time transmission of cable contamination
- Dynamic tracking of the sensor contamination
- Adjustable alarm threshold
- Very wide operating temperatures range
- Able to detect the vapors diffused in the soil after spill from underground pipes

Typical Applications

- Leak detection in Oil & Gas facilities
- Detection of leaking fuel from airport hydrant systems, military, and custody transfer installations in harsh outdoor, demanding environmental conditions
- Leak detection in refineries, tank farms, mainline pipe sections, or repair sites
- Leak detection in refineries, tank farms, block valves, mainline pipe sections
- Leak detection in downstream and fuel retail facilities

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Typical Detection time at 20°C with approved sensor cable

Unleaded Gasoline	1 min 20 seconds
Diesel	2 minutes
Jet Fuel	2 minutes
WTI/WTS	6-7 minutes
Dilbit AWB	11-12 minutes
Bunker C oil	45-55 minutes

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	Panel: IP10/NEMA 1 – indoor use only
Operating Temperature Range	–25°C to +65°C
Power Supply Voltage Range	12 – 24 VDC Class 2 Circuit / 24 VDC only for FLD-SSM-H420
Maximum Length of Cable	Sensor Cable: 25 m / 82 ft. Leader Cable (AWG22 min): 300 m / 1000 ft.
Power Consumption	30mA max.
Mounting	DIN-rail mounted inside electric cabinet or suitable enclosure

Attention! DAG-LSM 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

DAG-LSM-HR2	Monitoring module for passive sensor cable or probe for detecting non-polar liquids, with 2 SPDT relay outputs
DAG-LSM-HR2-010	Monitoring module for passive sensor cable or probe for detecting non-polar liquids, with 0-10V output and 2 SPDT relay outputs
DAG-LSM-H420	Monitoring module for passive sensor cable or probe for detecting non-polar liquids, with 3-wire current loop 4-20mA output
DAG-LSM-HR1-485	Monitoring module for passive sensor cable or probe for detecting non-polar liquids, with 1 SPDT relay and Modbus RTU outputs

Manufacturer:

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