FG-A-OD

Alarm Unit for Hydrocarbon Leak Detection

LIQUID LEAK DETECTION SYSTEMS

OIL & GAS DIVISION

Product Datasheet
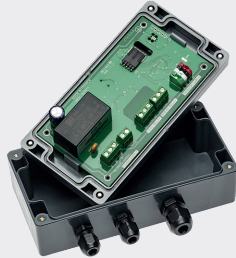
► Leak Detection of Hydrocarbons
► Three LED Indicators
► Two SPDT Relays

Description

The FG-A-OD, Alarm Unit for Hydrocarbon Leak Detection, is designed to be used with FG-OD hydrocarbon range of products, to provide quick detection of liquid (non-conductive hydrocarbon liquids and solvent).

LEDs on the front panel indicate presence of Power Supply (green), Leak Detected (red) or Cable Break (yellow).

Responses on the FG-A-OD alarm unit:
- In the case of leak, an audible alarm is triggered. The red LED is switched on and the leak relay is activated.
- In the case of cable break, an audible alarm is triggered, the yellow LED is switched on and the cable break relay is activated.

The "SOUND OFF" button on the front panel allows manual silencing of the audible alarm. The LED and corresponding relay remain activated as long as the fault persists. When the fault is corrected the LED and the relay return to normal status.

Features & Benefits

FEATURES

- Available as wall mounted enclosure.
- The unit can monitor 1 sense cable of up to 65 ft (20 m).
- Visual and audible indicators for the type of fault (leak or cable break).
- Flexible supply voltage: 12-24 VAC or 100-240 VAC; 15-30 VDC.
- Easily accessible terminals for quick installation.
- Two SPDT relays provide easy interfacing to third-party supervising equipment.

BENEFITS

- The FG-A-OD is simple and easy to use, your ideal choice for smaller or remote applications.
- Reduced maintenance, only a simple bi-annual test is recommended.

Technical Data

Compatibility	Hydrocarbon range of sense cables: FG-OD, FG-ODR, FG-ODC; Point detector: FG-ODP
Box Type	IP50; ABS flame retardant UL94V0
Operating Temperature	32° to 122°F (0° to 50°C)
Relay Type for Faults	Two SPDT Relays - One of Leak, One for Cable Break/Power Fail
Maximum Switching Voltage	125VAC and 220VDC
Maximum Switching Capacity	60W (30 x 2A)
Supply Voltage	12-24 VAC, or 100-240 VAC; 15-30 VDC
Dimensions (W,H,D)	6.77"W x 3.35"H x 2.17"D (172x85x55 mm)

Panel Description

1: The leak signal (red LED) indicates that the system has detected a liquid leak.
2: The continuity signal (yellow LED) indicates that the system has detected a circuit interruption.
3: The power supply signal (green LED) indicates that the system is in normal operation.
4: The button is used to stop the audible alarm.
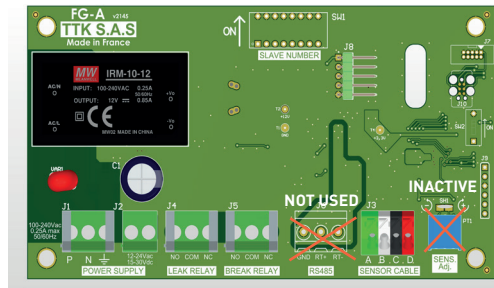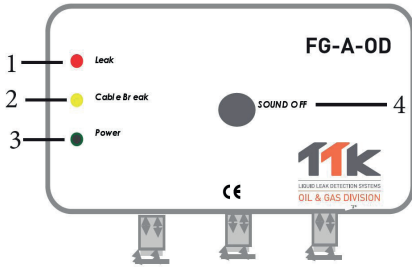
FG-A-OD Connector Description

Electrical Ratings

Power Supply 100-240VAC	N : Neutral / P : Phase / ⏚ : Earth
Power Supply 12-24 VAC; 15-30VDC	Automatic polarity for DC
Power Fail/Continuity Fault Relay	R1 : NO / R2 : COM / R3 : NC
Leak Relay	R4 : NO / R5 : COM / R6 : NC
FG-CLOD Leader Cable	B : White / C : Black / D : Red

Identification Codes

FG-A-OD	Alarm Unit for Hydrocarbon Leak Detection (wall mounted)
FG-OD20, FG-OD12, FG-OD7, FG-OD3	Addressable Oil Sensing Cable in 65, 39, 22, 9 ft (20, 12, 7, 3 m) with Connectors
FG-ODR20, FG-ODR12, FG-ODR7, FG-ODR3	Addressable Refined Liquid Oil Sensing Cable in 65, 39, 22, 9 ft (20, 12, 7, 3 m) with Connectors
FG-ODC12, FG-ODC7, FG-ODC3	Addressable High Sensitivity Oil Sense Cable in 39, 22, 9 ft (12, 7, 3 m) with Connectors
Accessories:	
FG-CLOD	Leader Cable, on 'OD Bus 8771'
FG-TMOD	Digital End Plug on 'OD Bus 8771' for FG-OD Cable
FG-NOD N	'OD Bus 8771' Neutral Cable 'N' (98, 49, 22, 9 ft) (30, 15, 7, 3, 1m) With Connectors
CF-OD50	50 Hold-down Clips with Adhesive for Oil Cables
ES-OD	40 Tags for Oil Cable

Certificates

CE

FG-OD sense cables which are certified by ATEX can be connected to the FG-A-OD alarm & location unit.