

Installation Instructions FG-A-OD



1 FG-A-OD Alarm Unit Description

- The FG-A-OD Alarm Unit is designed to be used with FG-OD hydrocarbon range of sense cable or point detector, to provide quick detection of liquid (non-conductive hydrocarbon liquids and solvent). The appearance of a fault (leak, cable break) is detected in the following way:
 - An audible alarm is triggered;
 - A luminous diode turns on: red (for leak) or yellow (for cable break);
 - A dry contact is activated to transfer the alarm information to remote monitoring equipments.
- To stop the audible alarm, press the central button. The diode and the dry contact remain activated as long as the fault is present.
- When the fault disappears, the diode switched off and the relay returns to its original normal status.
- The panel is designed to connect only 1 length of sensor cable, if there are more than 1 sensor installed, the panel will be locked and the alarm will be active permanently.

2 Panel Mounting

- Available in Wall Mounted Version:
Two of the three cable glands are placed on the FG-A-OD Alarm Unit, the last one can be screwed in the place of plug PG7.
Use the four fixing holes in the lower part of the unit box. Release the higher part of the box of the lower part which is maintained by four screws. These two parts could be easily dismantled after mural fixing. Withdraw carefully the higher part with the PCB (printed circuit board).

FG-A-OD Alarm Unit, wall mounted version, contains:

- 1 FG-A-OD Alarm Unit
- 3 PG cable glands: 2 PG7 + 1 PG9
- 1 plug PG7
- Installation Instructions (this document)

3 Connection and Adjustment

1. Power Connection

Three possibilities for power connection: 12 to 24 VAC / 15 to 30 VDC / 100-240 VAC 50/60Hz.
Maximum capacity: 10W
The maximum section of the cable is of 14 AWG for 100-240 VAC 50/60Hz, and 18 AWG for 12-24VAC and 15-30VDC.
It is not necessary to respect the polarity in 12/24 V. Use PG9 cable gland for the cable 230 V.

2. Connection of the Dry Relays

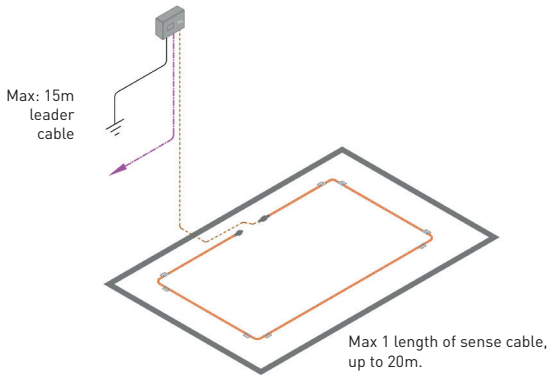
Simple relay: COM-NO-NC
Max. commutated Voltage: 125 VAC / 220 VDC
Max. commutated Power: 60W (30V x2A)
The dry relays are free of potential.
The maximum section of the cables is of 18 AWG.
- Dry Contact for Leak:
The leak contact transfers the information of leak to a PC (or supervisor), allowing automated equipment control.
- Dry Contact for Cable Break:
A specific contact is activated in case of cable break. A power supply failure also activates the contact.

4 Sensor Connection

■ Connection of Sense Cable FG-OD:

FG-OD sense cable will be connected at the extremity of FG-CLOD.

To connect the FG-CLOD to FG-A-OD, please refer to next section 5.

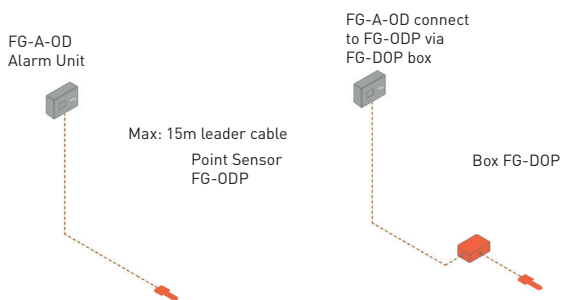


■ Connection of Point Detector FG-ODP :

FG-ODP point detector/probe can be connected to FG-A-OD in two different ways (refer to next Section 5 for wiring):

- Direct connection: FG-ODP leader cable (4 wires) into FG-A-OD;
- Via FG-DOP box: FG-ODP leader cable (4 wires) into FG-DOP box, and 'TTK 8771' bus leader cable (3 wires: B, C, D) from FG-DOP box into FG-A-OD.

NB : The second way allows having extra length of leader cable, if required.



5 Motherboard Connection



Warning :

- The green terminal is only used for the connection of an FG-ODP point sensor.
- Only the white-black-red terminals are used for the connection of an FG-OD sensing cable. **DO NOT USE THE GREEN TERMINAL.**
- The shield of the leader cable must be connected with the earth terminal of the power supply connector. **DO NOT CONNECT TO THE GREEN TERMINAL.**

To connect the various cables (leader cable, power supply and relays) at the corresponding connector block.

Power supply 100-240 VAC 50/60Hz	N : Neutral P : Live ⊕ : Earth
Power supply 12 V or 24 VDC	Polarity unnecessary
Cable Break Relay and/or Power Relay	R1 : COM R2 : NO R3 : NC
Leak Relay	R4 : COM R5 : NO R6 : NC
FG-CLOD Leader Cable (or FG-ODP Connection Cable)	A : Green wire (only for FG-ODP cable) B : White wire C : Black wire D : Red wire

Caution: All connections of the connector blocks must be done with FG-A-OD Alarm Unit supply switched off.

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