

FG-ALS4-OD

Four Zones Alarm & Locating System Unit for Hydrocarbon Leak Detection

Product Datasheet



Description

The FG-ALS4-OD, Four Zones Alarm & Locating System Unit is designed to be used with FG-OD hydrocarbon range of products, to give instant detection and location of liquid (non-conductive hydrocarbon liquids and solvent).

- In the event of liquid leak or default on the sense cables for each zone, the responses from the FG-ALS4-OD alarm & locating unit:
- An audible alarm is triggered and a relay is activated.
- The touch screen of the panel displays the zone, the location of the leak (on the cable) and details of the fault (the type of fault leak or cable break).
- Report to the DCS/SCADA/Safeguarding system via a JBUS/MODBUS protocol.
- To mute the alarm sound, simply touch the screen, or the panel will mute the alarm sound automatically when the leak or break is cleared.

Features & Benefits

FEATURES

- The FG-ALS4-OD unit is dedicated to the FG-OD range products including sense cables and point sensors.
- The FG-ALS4-0D unit can control up to 4 FG-0D sensing elements: sense cables or point sensors.
- 3.2" touch-screen gives a clear indication of the system status.
- User-friendly system users can customise the system with the sub menus accessible from the home screen, to set up the unit.
- 4 detection zones are available on one unit.
- 5 relays are available, 4 for leak and 1 for system fault.
- RS485 serial link with MODBUS/JBUS communication protocol for interfacing with BMS is available.

BENEFITS

- Locate leaks on the section.
- Detect cable-break fault.
- The FG-ALS4-OD unit is accurate and easy to use in Oil & Gas and Chemical Industries.

Technical Data

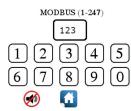
Compatibility	FG-0D, FG-0DC, FG-0DR range of hydrocarbon sense cables Point detector: FG-0DP
Enclosure Type	ABS flame retardant UL94V0
Operating Temperature	23° to 131°F (-5° to 55°C)
Serial Interface Physical Support	Optoisolated two wire RS485
Serial Link Parameters	9600 baud, 8 data bits, 1 stop, no parity
Supported Protocol	MODBUS, function 3
Relays Type: Leak + Cable Break	5 SPDT single contact NO-NC
Relay Max. Switching Voltage	125VAC and 220VDC
Relay Max. Switching Capacity	60W (30V x 2A)
Power Consumption	5 VA
Supply Current (typ.)	0.25A/115VAC 0.15A/230VAC
Dimensions (W,H,D)	6.61"W x 6.02"H x 2.2"D (168mmW x 153mmH x 56 mmD)
Ingress Protection (IP)	IP40

Screen Shots

 The first button (flag) allows to change the system language: English / French / German



The third button (gears) allows to change the Modbus slave number and to set the «mute» mode:



Electrical Specification

The second button (arrows) allows to show the installed lengths on each of the four cables:



In the case of faults (leak or cablebreak), the touch screen shows below: The leak alarms, represented by a drop of liquid; The cablebreak alarms, represented by scissors and the "sensor" label.



Power Supply 100-240VAC	N : Neutral / L : Line / 🛓 : Earth
RS485	R1 : COM / R2 : RT+ / R3 : RT-
Cable Break Relay	R1 : N0 / R2 : COM / R3 : NC
Leak Relay	R1 : N0 / R2 : COM / R3 : NC
FG-CLOD Leader Cable	B : White wire / C : Black wire / D : Red wire

Identification Codes

Analog Touchscreen Panel 4 Zones (Wall mounted) 100-240VAC - Oil Detection Sensors
Addressable Oil Sensing Cable in 65, 39, 22, 9 ft (20, 12, 7, 3 m) with Connectors
Leader Cable, on 'OD Bus 8771'
Digital End Plug on 'OD Bus 8771' for FG-OD Cable
'OD Bus 8771' Neutral Cable 'N' (98, 49, 22, 9 ft) (30, 15, 7, 3, 1m) With Connectors
50 Hold-down Clips with Adhesive for Oil Cables
40 Tags for Oil Cable

Certificates

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FG-OD sense cables which are certified by ATEX can be connected to the FG-ALS4-OD alarm & location unit.

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