



LIQUID LEAK DETECTION SYSTEMS

OIL & GAS DIVISION

# FG-ALS4-OD

## Four Zones Alarm & Locating System Unit for Hydrocarbon Leak Detection

### Product Datasheet



- ▶ Locating Leak Detection System
- ▶ 4 Independent Zones
- ▶ 4 Simultaneous Leaks can be Detected
- ▶ Touchscreen Display
- ▶ MODBUS/JBUS Integration
- ▶ Exclusive for FG-OD Range Products

## 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 touchscreen of the panel displays the zone, the location of the leak (on the relevant sense cable) and details of the fault (the type of fault leak or cable break).
- Report to the DCS/SCADA/Safeguarding system via a MODBUS/JBUS protocol.

To mute the alarm sound, simply touch the screen, or the panel will automatically mute the alarm when the leak or break is resolved.

## Key Advantages

- **Zone Control:** The FG-ALS4-OD unit features four detection zones, each capable of monitoring a sense cable or point sensor, allowing control of up to four independent lengths.
- **Fault Detection:** The system detects cable break faults to ensure reliable monitoring.
- **User-Friendly Interface:** Users can customize the system through submenus accessible from the home screen to set up the unit easily.
- **Seamless DCS Integration:** The unit features an RS485 serial link with MODBUS/JBUS communication protocol, enabling easy interfacing with DCS/SCADA/Safeguarding system.
- **Precision & Usability:** The FG-ALS4-OD unit is accurate and easy to use, making it ideal for small and medium applications where precise leak location is required.

## Screen Shots

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

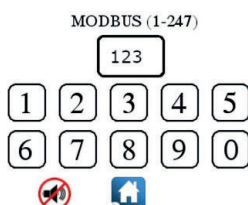


- The second button (arrows) allows to show the installed lengths on each of the four cables:

ZONE 1 3 m	ZONE 2 12 m
ZONE 3 7 m	ZONE 4 3 m



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



- 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.

ZONE 1 🚰 END	ZONE 2 ✅ OK
ZONE 3 🚰 LEAK	ZONE 4 ✂️ BUS



# Technical Data

<b>Compatibility</b>	Digital units: FG-NET, FG-BBOX-LL, FG-BB-PoE, FG-RELAYS via FG-DTM Sense cables: FG-OD range of cables and probes
<b>Dimensions &amp; Weight</b>	168 mm W × 153 mm H × 56 mm D 0.8 kg
<b>Sensor Capacity</b>	4 lengths of sense cables
<b>Location Accuracy</b>	Relevant sense cable
<b>Operating Languages</b>	English, French, German
<b>Supply Voltage</b>	100-240 VAC, 50/60 Hz
<b>Current</b>	0.06 A (120 V), 0.03 A (230 V)
<b>Power Consumption</b>	7 VA Max
<b>Operating Temperature</b>	-15°C to 55°C
<b>Case Type</b>	ABS flame retardant UL94V0
<b>Screen Size</b>	3.5"
<b>Format</b>	Wall mounted
<b>Ingress Protection</b>	IP40
<b>Serial Connection</b>	MODBUS/JBUS RS485
<b>Numbers of Relays</b>	5 (4 leak relays + 1 break & power failure relay)
<b>Relay Types</b>	Volt free dry contact (NO, NC, COM)
<b>Power Failure Relay</b>	Activated on loss of supply voltage
<b>Type of Faults Available on the Configurable Relays</b>	Non-configurable
<b>Maximum Relay Switching Voltage</b>	125 VAC and 220 VDC
<b>Maximum Relay Switching Capacity</b>	60 W (30 V x 2A)

# Identification Codes

<b>FG-ALS4-OD F</b>	Analog Touchscreen Panel 4 Zones (Wall mounted) 100-240VAC - Oil Detection Sensors
<b>Accessories:</b>	
<b>FG-CLOD</b>	Leader Cable 3.5 m
<b>FG-TMOD</b>	Digital End Plug on OD Bus 8771 for FG-OD Cable
<b>FG-NOD 'N'</b>	OD Bus 8771 Neutral Cable 'N' (1, 3, 7, 15, 30 m) with Connectors
<b>CF-OD50</b>	50 Hold-down Clips with Adhesive for Oil Cables
<b>ES-OD</b>	40 Tags for Oil Cable

# Certifications



ATEX certified FG-OD range of sense cables and probes can be connected to the FG-ALS4-OD unit.  
All the connections in the FG-ALS4-OD alarm locating system unit must be done with the power supply switched off.  
Read carefully the installation procedure for the FG-ALS4-OD alarm locating system unit.

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