FG-ALS8-OD

Eight Zones Alarm & Locating System Unit for Hydrocarbon Leak Detection

TTK LIQUID LEAK DETECTION SYSTEMS

OIL & GAS DIVISION

Product Datasheet

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

Description

The FG-ALS8-OD, Eight 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-ALS8-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 JBUS/MODBUS 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-ALS8-OD unit features eight detection zones, each capable of monitoring a sense cable or point sensor, allowing control of up to eight 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-ALS8-OD unit is accurate and easy to use, making it ideal for small and medium applications where leak location is required.
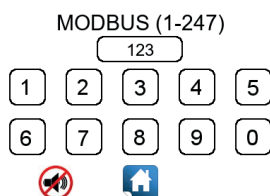
Screen Shots

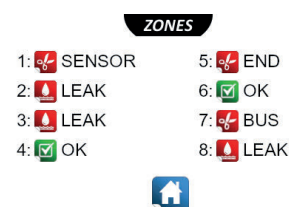■ The first button (flag) allows to change the system language: English / French / German

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

ZONES

Zone 1: 3 m	Zone 5: 7m
Zone 2: 3 m	Zone 6: 3 m
Zone 3: 12 m	Zone 7: 7 m
Zone 4: 7 m	Zone 8: 12 m

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

MODBUS (1-247)

123

1	2	3	4	5
6	7	8	9	0

■ 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.

ZONES

1: ✂ SENSOR	5: ✂ END
2: 💧 LEAK	6: ☑ OK
3: 💧 LEAK	7: ✂ BUS
4: ☑ OK	8: 💧 LEAK

Technical Data

Compatibility	Digital units: FG-NET, FG-BBOX-LL, FG-BB-PoE, FG-RELAYS via FG-DTM Sense cables: FG-OD range of cables and probes
Dimensions & Weight	8.66"W x 7.87"H x 2.16"D (220mmW x 200mmH x 55mmD) 2.2 lbs (1 kg)
Sensor Capacity	8 lengths of sense cables
Location Accuracy	Relevant sense cable
Operating Languages	English, French, German
Supply Voltage	100-240 VAC, 50/60 Hz
Current	0.09 A (120 V), 0.05 A (230 V)
Power Consumption	10 VA Max
Operating Temperature	5°F to 131°F (-15°C to 55°C)
Case Type	ABS flame retardant UL94V0
Screen Size	4.3"
Format	Wall mounted
Ingress Protection	IP40 - Indoor use only
Serial Connection	MODBUS/JBUS RS485
Numbers of Realys	9 (8 leak relays + 1 break & power failure relay)
Relay Types	Volt free dry contact (NO, NC, COM)
Power Failure Relay	Activated on loss of supply voltage
Type of Faults Available on the Configurable Relays	Non-configurable
Maximum Relay Switching Voltage	125 VAC and 220 VDC
Maximum Relay Switching Capacity	60 W (30 V x 2A)

Identification Codes

FG-ALS8-OD F	Analog Touchscreen Panel 8 Zones (Wall mounted) 100-240VAC - Oil Detection Sensors
Accessories:	
FG-CLOD	Leader Cable 11.48 ft (3.5 m)
FG-TMOD	Digital End Plug on OD Bus 8771 for FG-OD Cable
FG-NOD 'N'	OD Bus 8771 Neutral Cable 'N' (9, 22, 49, 98 ft) (1, 3, 7, 15, 30 m) with Connectors
CF-OD50	50 Hold-down Clips with Adhesive for Oil Cables
ES-OD	40 Tags for Oil Cable

Certifications

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All the connections in the FG-ALS8-OD alarm locating system unit must be done with the power supply switched off.
Read carefully the installation procedure for the FG-ALS8-OD alarm locating system unit.

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