



LIQUID LEAK DETECTION SYSTEMS
OIL & GAS DIVISION

FG-ALS8-OD

Eight Zones Alarm & Locating System Unit for Hydrocarbon Leak Detection

Product Datasheet



- ▶ Locating Leak Detection System
- ▶ 8 Independent Zones
- ▶ 8 Simultaneous Leaks can be Detected
- ▶ Touch Screen 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 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-ALS8-OD unit is dedicated to the FG-OD range products including sense cables and point sensors.
- The FG-ALS8-OD unit can control up to 8 FG-OD range sensing elements: sense cables or point sensors.
- 4.3" 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.
- 8 detection zones are available on one unit.
- 9 relays are available, 8 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-ALS8-OD unit is accurate and easy to use in Oil & Gas and Chemical Industries.

Technical Data

Compatibility	Hydrocarbon sense cables: FG-OD, FG-ODC and FG-ODR range of cables; Point detector: FG-ODP
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	9 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)	8.66"W x 7.87"H x 2.16"D (220mmW x 200mmH x 55mmD)
Ingress Protection (IP)	IP40

Screen Shots

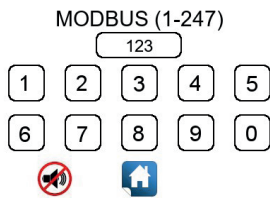
- The first button (flag) allows to change the system language: English / French / German



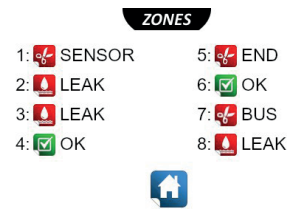
- The second button (arrows) allows to show the installed lengths on each of the eight cables:



- 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.



Electrical Specification

Power Supply 100-240VAC	N : Neutral / L : Line / : Earth
RS485	R1 : COM / R2 : RT+ / R3 : RT-
Cable Break Relay	R1 : NO / R2 : COM / R3 : NC
Leak Relay	R1 : NO / R2 : COM / R3 : NC
FG-CLOD Leader Cable	B : White wire / C : Black wire / D : Red wire

Identification Codes

FG-ALS8-OD F	Analog Touchscreen Panel 8 Zones (Wall mounted) 100-240VAC - Oil Detection Sensors
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



FG-OD sense cables which are certified by ATEX can be connected to the FG-ALS8-OD alarm & location unit. The FG-ALS8-OD unit meets the requirements of all European Standards in EN61000-6-2 / EN61000-6-3/EN61000-3-2/EN61000-3-3.

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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- TTK Headquarters** / 19 rue du Général Foy / 75008 Paris / France / T : +33.1.56.76.90.10 / F : +33.1.55.90.62.15 / www.ttk.fr / ventes@ttk.fr
- TTK Oil & Gas Division** / 19 rue du Général Foy / 75008 Paris / France / T : +33.1.56.76.90.10 / F : +33.1.55.90.62.15 / www.ttk.fr / rrisi@ttk.fr
- TTK UK Ltd.** / 3 Luke Street / London EC2A 4PX / United Kingdom / T : 0207 729 6002 / F : 0207 729 6003 / www.ttkuk.com / sales@ttkuk.com
- TTK Pte Ltd.** / #09-05, Shenton House, 3 Shenton Way / Singapore 068805 / Tel.+65-6220.2068 / Mob: +65.9271.6191 / Fax. +65-6220.2026 / www.ttk.sg / sales@ttk.sg
- TTK Asia Ltd.** / 2107-2108 Kai Tak Commercial Building / 317 Des Voeux Road Central / Hongkong / Tel.+852.2858.7128 / Fax.+852.2858.8428 / www.ttkasia.com / info@ttkasia.com
- TTK Middle East FZCO** / Building 6EA, Office 510 PO Box 54925 / Dubai Airport Free Zone / UAE / T : +971 4 70 17 553 / M: +971 50 259 66 29 / www.ttkuk.com / cgalmiche@ttk.fr
- TTK Deutschland GmbH** / Berner Strasse 34 / 60437 Frankfurt / Deutschland / T : +49(0)69-95005630 / F : +49(0)69-95005640 / www.ttk-gmbh.de / vertrieb@ttk-gmbh.de
- TTK North America Inc** / 1730 St. Laurent Boulevard, Suite 800 / Ottawa, ON K1G 5L1 / Canada / T : +1 613 566 5968 / www.ttkcanada.com / info@ttkcanada.com