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
- Touch Screen 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 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.

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-OD unit can control up to 4 FG-OD 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.
- 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

- Pinpoint the location of leaks monitored by 4 independent zones.
- Detect cable-break fault.
- The FG-ALS4-OD unit is accurate and easy to use in Oil & Gas and Chemical Industries.

Technical Data

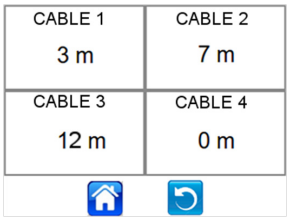
Compatibility	Hydrocarbon sense cables: FG-OD20, FG-OD12, FG-OD7, FG-OD3; Point detector: FG-ODP
Enclosure Type	ABS flame retardant UL94V0
Operating Temperature	-5°C to 55°C
Serial Interface Physical Support	Optoisolated two wire RS485
Serial Link Parameters	9600 baud, 8 data bits, 1 stop, no parity
Supported Protocol	MODBUS, function 3
Relays Type: Leak + Cable Break	5 SPDT single contact NO-NC
Relay Max. Switching Voltage	230VAC and 220VDC
Power Consumption	5 VA
Supply Voltage	100-240Vac - 50/60Hz
Dimensions (W,H,D)	168 x 153 x 56 mm

Screen Shots

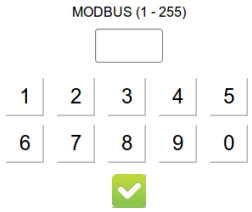
- The first button (flag) allows to change the system language:
  English / French / German



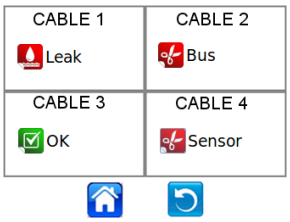
- The second button (arrows) allows to show the installed lengths on each of the four cables:



- The third button (gears) allows to change the Modbus slave number:



- 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-ALS4-OD F	Analog Touchscreen Panel 4 Zones (Wall mounted) 100-240VAC - Oil Detection Sensors
FG-OD20, FG-OD12, FG-OD7, FG-OD3	Addressable Oil Sensing Cable in 20, 12, 7, 3 m with Connectors
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' (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

CE Ex

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

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- **TTK headquarters** / 4 rue du Chemin Vert, 92110 Clichy, France / T : +33.1.56.76.90.10 / F : +33.1.55.90.62.15 / **www.ttk.fr** / **ventes@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** / HazloLaw Professional Corporation, 449 Sussex Drive Suite 200, Ottawa ON K1N 6Z4 / T : +1 613 566 5968 / **www.ttkcanada.com** / **sbalatchev@ttkcanada.com**