

# FG-ALS4

## Four Zones Alarm & Locating System Unit

#### Product Datasheet







- Locating Leak Detection System
- ► 4 Independent Zones
- ▶ 4 Simultaneous Leaks can be Detected
- ► Touch Screen Display
- MODBUS/JBUS Integration
- Sensibility Adjustable

## **Description**

The FG-ALS4, Four Zones Alarm & Locating Unit is designed to be used with TTK analog sense cables: FG-ECS, FG-ACS and FG-ECX, FG-ACX to give instant detection of liquid leaks (water, acid or base).

In the event of liquid leak or fault on the sense cables in any zone, the FG-ALS4 will respond as follows:

- An audible alarm is triggered and a relay is activated.
- The touch screen of the panel displays the zone, the location of the leak (to the nearest 1 metre) and details of the fault (the type of fault leak or cable break).
- Event report is sent to the BMS via MODBUS /JBUS.

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**

- Available in both wall mounted and rack mounted (19" and 3U).
- The FG-ALS4 unit can control up to 45 metres of sense cable per zone.
- 3.2" touch-screen gives a clear indication of the system status.
- 4 detection zones are available.
- 5 relays are available, 4 for leak and 1 for cable break (all zone)+power failure.
- RS485 serial link with MODBUS/JBUS communication protocol for interfacing with BMS is available.

#### BENEFITS

- Accurate reporting of leak location to one metre.
- Detects cable break faults.
- The sensibility of the unit is adjustable via the potentiometer on the PCB.
- Compatible with existing monitoring systems.
- User-friendly system users can customise the system with the sub menus accessible from the home screen, to set up the unit.
- The FG-ALS4 unit is accurate and easy to use, ideal for small and medium applications where accurate leak location is required.

## **Technical Data**

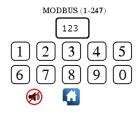
Compatibility	Analog sense cables: FG-ECS, FG-ECX, FG-ACS, FG-ACX
Enclosure Type	ABS flame retardant UL94V0
Operating Temperature	-5°C to 55°C
Serial Interface Physical Support	Optoisolated two wire RS485
Serial Link Parameters	9600 baud, 8 data bits, 1 stop, no parity
Supported Protocol	MODBUS, function 3
Relays Type: Leak + Cable Break	5 SPDT single contact NO-NC
Relay Max. Switching Voltage	125VAC and 220VDC
Relay Max. Switching Capacity	60W (30V x 2A)
Supply Current (typ.)	0.25A/115VAC 0.15A/230VAC
Supply Voltage	100-240 VAC, 50/60Hz
Dimensions (W,H,D)	Wall mounted: 168 x 153 x 56 mm; Rack mounted: 482.60 x 132.56 mm
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:



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

•	
45 m	15 m
ZONE 3	ZONE 4
20 m	5 m
ZONE 1	ZONE 2

■ 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	ZONE 2	
<b>⋘</b> SENSOR	<b></b>	
ZONE 3	ZONE 4	
<b>△</b> 16m	<b>₹</b> SENSOR	

## **Electrical Specification**

Power Supply	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-CLC Leader Cable	A: Green wire / B: White wire / C: Black wire / D: Red wire

## Identification Codes

FG-ALS4 F	Four zones alarm & location system unit - wall mounted
FG-ALS4 E	Four zones alarm & location system unit - rack mounted (19", 3U)
FG-ECS, FG-ACS and FG-ECX, FG-ACX	Water or acids sense cable in 3m, 7m, and 15m in length
Accessories:	
FG-CLC	Leader cable of 3.5 metres length
FG-TMX	End termination plug
CF-EC100	100 hold-down clips with glue
ES-EC	40 tags

## Certificates



EN 50081 and EN 50082 EMC

FG-ALS4 meets the TÛV requirements, according to IEC 61010-1/A2.

The FG-ALS4 unit meets the requirements of all European Standards in All the connections in the FG-ALS4 alarm locating system unit must be done with the power supply switched off. Read carefully the installation procedure for the FG-ALS4 alarm locating system unit.

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