

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

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.

Features & Benefits

FEATURES

- 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 system fault.
- 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.
- 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	230VAC and 220VDC
Power Consumption	5 VA
Supply Voltage	85VAC to 230VAC-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 zones:

ZONE 1 3 m	ZONE 2 7 m
ZONE 3 15 m	ZONE 4 0 m



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

MODBUS (1 - 255)

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.

ZONE 1 5 m	ZONE 2 Sensor
ZONE 3 OK	ZONE 4 Sensor



Electrical Specification

Power Supply 230-240VAC	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-CLC Leader Cable	A : Green wire / B : White wire / C : Black wire / D : Red wire

Identification Codes

FG-ALS4	Four zones alarm & location system unit
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
CFE-100C	100 hold-down clips with glue
ES-EC	40 tags

Certificates



The FG-ALS4 unit meets the requirements of all European Standards in EN 50081 and EN 50082 EMC.
FG-ALS4 meets the TÜV requirements, according to IEC 61010-1/A2.

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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