LIQUID LEAK DETECTION SYSTEMS

FG-ALS8

Eight Zones Alarm & Locating System Unit

Product Datasheet



- Locating Leak Detection System
- 8 Independent Zones
- 8 Simultaneous Leaks can be Detected
- Touch Screen Display
- MODBUS/JBUS Integration

Description

The FG-ALS8, Eight 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 and location of liquid leaks (water, acid or base).
In the event of liquid leak or fault on the sense cables in any zone, the FG-ALS8 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-ALS8 unit can control up to 100 metres of sense cable per zone.
- 4.3" touch-screen gives a clear indication of the system status.
- 8 detection zones are available.
- 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.

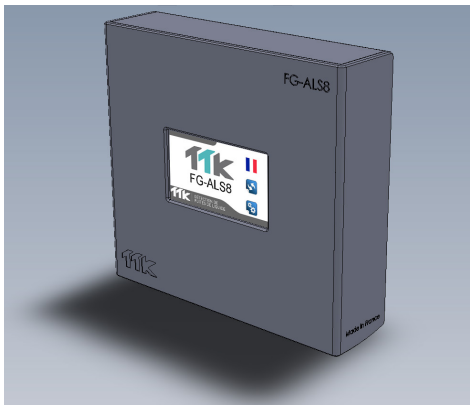
BENEFITS

- 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-ALS8 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	9 SPDT single contact NO-NC
Relay Max. Switching Voltage	230VAC and 220VDC
Power Consumption	5 VA
Supply Voltage	100 - 240 VAC-50/60Hz

Product Outlook





Electrical Specification

Power Supply	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-ALS8	Eight 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
CF-EC100	100 hold-down clips with glue
ES-EC	40 tags

Certificates

CE

The FG-ALS8 unit meets the requirements of all European Standards in EN 50081 and EN 50082 EMC.
FG-ALS8 meets the TÛV requirements, according to IEC 61010-1/A2.

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

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