

FG-ALS4 Four Zones Alarm & Locating System Unit

Product Datasheet



Description

The FG-ALS4, Four Zones Alarm & Locating Unit is designed to be used with TTK analog sense cables to give instant detection of liquid leaks (water, acids 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 touchscreen of the panel displays the zone, the location of the leak (+/- 1 m) 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 automatically mute the alarm when the leak or break is resolved.

Key Advantages

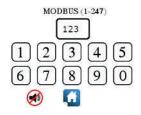
- Zone Control: The FG-ALS4 unit can control up to 45 m of sense cable per zone.
- Adjustable Sensitivity: The sensitivity of the unit is adjustable via the potentiometer located on the PCB.
- Flexible Mounting Options: Available in both wall mounted and rack mounted (19" and 3U).
- Fault Detection: The system detects cable break faults to ensure reliable monitoring.
- User-Friendly Interface: Users can customize the system through submenus accessible from the home screen to set up the unit easily.
- Seamless BMS Integration: The unit features an RS485 serial link with MODBUS/JBUS communication protocol, enabling easy interfacing with Building Management Systems (BMS).
- Precision & Usability: The FG-ALS4 unit is accurate and easy to use, making it ideal for small and medium applications where precise leak location is required.

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 the four zones:

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.



Technical Data

CompatibilityDigital units: FG-NET, FG-BB0X, FG-BB-PGE, FG-RELAYS via FG-DTM Analog sense cables: FG-ECS, FG-ACS, FG-ACXDimensions & WeightWall mounted: 168 mm W × 153 mm H × 56 mm D 0.8 kg Rack mounted: 3U (or 482.60mm x 132.56 mm) 0.7 kgSensor Capacity4 x45 mLocation Accuracy4 /- 1 mOperating LanguagesEnglish, French, GermanSupply Voltage0.0240 VAC, 50/60 HzCurrent0.04 kl220 VJ0.003 A [230 VJPower Consumption7 VA MaxOperating Temperature0.15° Co 55°CCase TypeABS flame retardant UL94V0Screen Size3.5°FormatWall mounted, no IP indice for rack mountedIngress Protection5 (4 leak relays + 1 break & power failure relay)Numbers of Realys5 (4 leak relays + 1 break & power failure relay)Relay TypesVolt free dry condict (NO, NC, COM)Power Failure RelayKonconfigurable RelayRelay TypesKonconfigurable RelayKataum Relay Switching VoltageKonconfigurableMaximum Relay Switching Capacity600 (30 × 2A)		
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Location Accuracy+/- 1 mOperating LanguagesEnglish, French, GermanSupply Voltage100-240 VAC, 50/60 HzCurrent0.06 A (120 V), 0.03 A (230 V)Power Consumption7 VA MaxOperating Temperature-15°C to 55°CCase TypeABS flame retardant UL94V0Screen Size3.5''FormatWall mounted & rack mounted 3UIngress ProtectionIP40 for wall mounted, no IP indice for rack mountedSerial ConnectionMODBUS/JBUS RS485Numbers of Realys5 (4 leak relays + 1 break & power failure relay)Relay TypesVolt free dry contact (NO, NC, COM)Power Failure RelayNon-configurableMaximum Relay Switching Voltage125 VAC and 220 VDC	Dimensions & Weight	0.8 kg Rack mounted: 3U (or 482.60mm x 132.56 mm)
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Relay Types Volt free dry contact (NO, NC, COM) Power Failure Relay Activated on loss of supply voltage Type of Faults Available on the Configurable Relays Non-configurable Maximum Relay Switching Voltage 125 VAC and 220 VDC	Serial Connection	MODBUS/JBUS RS485
Power Failure Relay Activated on loss of supply voltage Type of Faults Available on the Configurable Relays Non-configurable Maximum Relay Switching Voltage 125 VAC and 220 VDC	Numbers of Realys	5 (4 leak relays + 1 break & power failure relay)
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Maximum Relay Switching Voltage 125 VAC and 220 VDC	Power Failure Relay	Activated on loss of supply voltage
	Type of Faults Available on the Configurable Relays	Non-configurable
Maximum Relay Switching Capacity60 W (30 V x 2A)	Maximum Relay Switching Voltage	125 VAC and 220 VDC
	Maximum Relay Switching Capacity	60 W (30 V x 2A)

Identification Codes

FG-ALS4 F	Analog Touchscreen Panel 4 Zones (Wall Mounted) 100-240VAC - Water & Acids Detection
FG-ALS4 E	Analog Touchscreen Panel 4 Zones (19' Rack Mounted) 100-240VAC - Water & Acids Detection
Accessories:	
FG-CLC	Leader Cable 3.5 m
FG-TMX	End Termination
CF-EC100	100 Hold-down Clips with Adhesive
ES-EC	40 Signal Tags

Certifications

CE

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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