



LIQUID LEAK DETECTION SYSTEMS

FG-ALS

Alarm Locating System Unit

Product Datasheet



- ▶ Analog Leak Detection System
- ▶ Detection with Location
- ▶ LCD Display and LED Indicators
- ▶ MODBUS/JBUS Integrated
- ▶ Two Configurable Output Relays

Description

The FG-ALS Alarm Location System 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).

A LCD display and three LED's on the front panel indicate presence of Power Supply (green), Leak Detected (red) or Cable Break (yellow). The FG-ALS also features an RS485MODBUS/JBUS serial link to integrate to a variety of intelligent monitoring systems.

If a leak is detected an audible alarm is triggered. The LCD display on the alarm unit front panel will show the distance in metres to the leak, the red LED is switched on and the leak relay is activated.

In the case of cable break an audible alarm is triggered, the yellow LED is switched on and the cable break relay is activated.

The SOUND OFF button on the front panel allows manual silencing of the audible alarm. The LED's and corresponding relays remain activated as long as the fault persists. When the fault is corrected the LEDs and relays return to normal status.

Features & Benefits

FEATURES

- Available in an attractive wall mounted unit (FG-ALS).
- The unit can control sense cables up to 150 metres.
- Visual and Audible indicators for the type of fault (leak or cable break).
- Two zero volt contact relays provide numerous signalling and centralised monitoring options.
- RS485 serial link with MODBUS provides a variety of intelligent interfacing options.

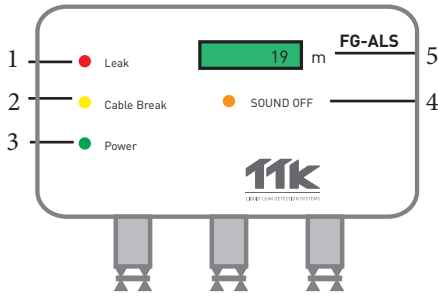
BENEFITS

- Accurate reporting of leak location.
- Detects cable break faults.
- Compatible with existing monitoring systems.
- The FG-ALS 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 material (rated to UL94HB)
Operating Temperature	0°C to 50°C
Serial Interface Physical Support	Optoisolated two wire RS485
Serial Link Parameters	9600 bauds, 8 data bits, 1 stop, no parity
Supported Protocol	MODBUS, functions 3 and 4
Relays Type: Leak + Cable Break	1 SPDT single contact NO-NC
Dry Relay Max. Switching Voltage	125Vac or 220Vdc
Relay Max. Switching Capacity	60W (30V x 2A)
Power Consumption	2VA
Supply Voltage	230Vac / 110Vac — 50/60Hz or 12-24Vac, 15-30 Vdc
Dimensions (W,H,D)	172 x 86.6 x 55 mm

Panel Description

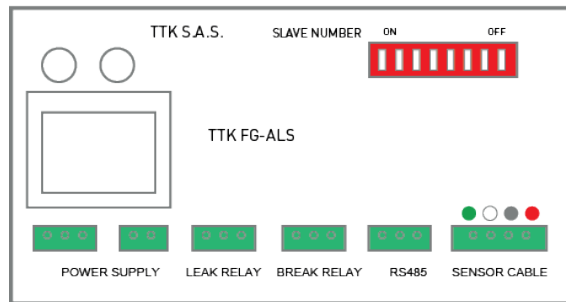


- 1: The leak signal (red LED) indicates that the system has detected a liquid leak.
- 2: The continuity signal (yellow LED) indicates that the system has detected a circuit interruption.
- 3: The power supply signal (green LED) indicates that the system is in normal operation.
- 4: The button is used to stop the audible alarm.
- 5: The displays shows the location of the leak in meters.

Dimensions



FG-ALS Wall Mounted Unit



Connector Description

Electrical Information

Power Supply	N : Neutral / P : Phase / : 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-ALS	Alarm location system unit FG-ALS fixed
Accessories:	
FG-CLC	Leader cable of 3.5 metres length
FG-ECS, FG-ACS and FG-ECX, FG-ACX	Water or acids sensing cable in 3m, 7m, and 15m in length
FG-TMX	End termination plug
CFE-100C	100 hold-down clips with adhesive
ES-40	40 tags

Certificates



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

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

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- **TTK Headquarters** / 19, rue du Général Foy, 75008 Paris, 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 : +44 207 729 6002 / F : +44 207 729 6003 / www.ttkuk.com / sales@ttkuk.com
- **TTK Pte Ltd.** / #09-05, Shenton House, 3 Shenton Way / Singapore 068805 / T : +65.6220.2068 / M : +65.9271.6191 / F : +65-6220.2026 / www.ttk.sg / sales@ttk.sg
- **TTK Asia Ltd.** / 2107-2108 Kai Tak Commercial Building / 317 Des Voeux Road Central / Hongkong / T : +852.2858.7128 / F : +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** / 1730 St Laurent Boulevard Suite 800 / Ottawa, ON, K1G 5L1 / Canada / T : +1 613 566 5968 / www.ttkcanada.com / info@ttkcanada.com