

# FG-A

## Alarm Unit for Water and Acids Leak Detection

### Product Datasheet



- ▶ Analog Leak Detection System
- ▶ Simple Detection Without Location
- ▶ Three LED Indicators
- ▶ Two Output Relays
- ▶ Adjustable Sensitivity

## Description

The FG-A alarm unit is designed to be used with TTK analog sense cables and probes to give immediate detection of liquid leaks (water, acids or base).

#### System Responses:

- Leak Detection: Triggers an audible alarm, activates the red LED, and activates the leak relay.
- Cable Break: Triggers an audible alarm, activates the yellow LED, and activates the cable break relay.

#### Alarm Control:

- The "SOUND OFF" button on the front panel allows manual muting of the audible alarm. However, the LED and relay remain activated until the fault is resolved. Once corrected, the system automatically returns to normal status.

## Key Advantages

- Zone Control: The FG-A unit can control up to 15 m of sense cable.
- Adjustable Sensitivity: The sensitivity of the unit is adjustable via the potentiometer located on the PCB.
- Fault Detection: The system detects cable break faults to ensure reliable monitoring.
- Clear Alerts: Visual and audible indicators differentiate between leak and cable break faults.
- Easy Installation: Easily accessible terminals enable quick and hassle-free installation.
- Reliable & Simple: The FG-A unit is accurate and user-friendly, making it ideal for small applications where precise leak location is not required.

## 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.



## Technical Data

<b>Compatibility</b>	Analog sense cables: FG-ECS, FG-ECX, FG-ACS, FG-ACX
<b>Dimensions &amp; Weight</b>	172 mm W × 86.6 mm H × 55 mm D 0.6kg
<b>Sensor Capacity</b>	1 x 15 m
<b>Location Accuracy</b>	Leak detection without location
<b>Operating Languages</b>	English, Chinese
<b>Supply Voltage</b>	12-24VAC, 15-30VDC, 100-240VAC, 50/60Hz
<b>Current</b>	0.02 A (120 V), 0.01 A (230 V)
<b>Power Consumption</b>	2 VA Max
<b>Operating Temperature</b>	-15°C to 55°C
<b>Case Type</b>	ABS POLYAC 707 (a natural ABS), rated UL94 HB
<b>Screen Size</b>	No screen
<b>Format</b>	Wall mounted
<b>Ingress Protection</b>	IP40
<b>Serial Connection</b>	NA
<b>Numbers of Relays</b>	2 (1 leak relays + 1 break & power failure relay)
<b>Relay Types</b>	Volt free dry contact (NO, NC, COM)
<b>Power Failure Relay</b>	Activated on loss of supply voltage
<b>Type of Faults Available on the Configurable Relays</b>	Non-configurable
<b>Maximum Relay Switching Voltage</b>	125 VAC and 220 VDC
<b>Maximum Relay Switching Capacity</b>	60 W (30 V x 2A)

## Identification Codes

<b>FG-A F</b>	Leak Detection Alarm Unit (Wall Mounted) 240VAC - Water & Acids Detection
<b>Accessories:</b>	
<b>FG-CLC</b>	Leader Cable 3.5 m
<b>FG-TMX</b>	End Termination
<b>CF-EC100</b>	100 Hold-down Clips with Adhesive
<b>ES-EC</b>	40 Signal Tags

## Certifications



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

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