

FG-ACP-A

Analog Acids Point Sensor

Product Datasheet



- ▶ Compatible with Analog Systems
- ▶ Detects and Locates Leaks
- ▶ IP67 Protection Marking

Description

The FG-ACP-A is an analog point sensor for acids / corrosive chemical liquids and water leak detection. It is designed to be used with TTK FG-ALS8, FG-ALS4, FG-ALS or FG-A control unit to give instant detection of liquid leaks.

In the event of liquid leak or cable break on the FG-ACP-A, the connected unit will respond as follows:

- An audible alarm is triggered and a relay is activated.
- The location of the leak in meters is displayed on the panel screen.

Key Advantages

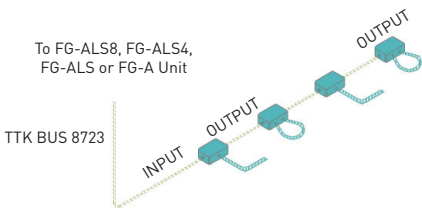
- Available in three models: sense cable in U-shape, in L-shape and in Customized Version to suit different environments.
- The electrical continuity is made with a length of TTK BUS cable connected to various FG-ACP-A and the control panel.
- PG7 glands on the box sides make jumper cabling quick and easy.
- The LED on the front face of the box indicates the box's status in real time:
 - Blinking green: normal, no alarm.
 - Blinking red: leak detected on the box.
 - No LED light: cablebreak detected on the box or loss of communication.
- The FG-ACP-A detects and locates rapidly a liquid leak that comes in contact with it.
- The FG-ACP-A detects any break or cut to the cable.
- The FG-ACP-A ensures permanent protection in areas at risk of acids and water leakage.
- A simple bi-annual test is all that is required.

Technical Data

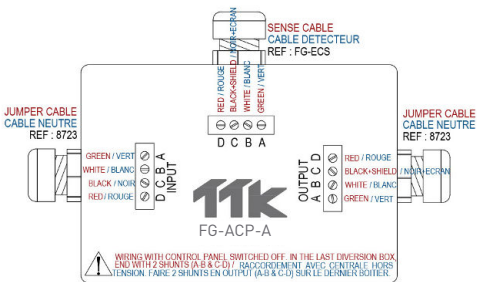
Compatibility	Alarm units: FG-ALS8, FG-ALS4, FG-ALS, FG-A
Reusability	Reusable, as long as the cable hasn't been damaged by prolonged immersion in liquid
Drying Time for Cable After Leak	Less than 10 seconds
Sense Cable Material & Nominal Diameter	PVDF, 0.3 in (± 0.02 in) (7.5 mm (± 0.5 mm))
Sensor Wires Material & Diameter	PVDF, 0.05 in (1.2 mm)
Core Material	PVDF
Minimum Bend Radius	0.79 in (20 mm)
Sense Cable Color	Green and light gray
Operating Temperature	5°F to 131°F (-15°C to +55°C) (Note: The sense cable itself is rated for temperatures up to +185°F [+85°C].)
Ingress Protection	IP 67
Enclosure Type	ABS Polylac 707 (a natural ABS), UL94HB
Dimensions (W,H,D)	4.13"W x 2.95"H x 2.17"D (105mmW x 75mmH x 55mmD)

Connection Schematic

- The two models: sense cable in U-shape and L-shape can be mixed in one circuit.
- Maximum:
 - 10 FG-ACP-A connected to one circuit of the FG-ALS8 unit;
 - 4 FG-ACP-A connected to one circuit of the FG-ALS4 unit;
 - 4 FG-ACP-A connected to the only one circuit of the FG-ALS unit;
 - 1 FG-ACP-A connected to the only one circuit of the FG-A unit.
- In the schematic, INPUT corresponds to the TTK BUS 8723 cable coming from the control panel; OUTPUT corresponds to the TTK BUS 8723 cable leaving towards the following FG-ACP-A.
- In the last FG-ACP-A, two shunts on the OUTPUT terminal, one between Green and White (A-B), and another one between Black and Red (C-D).

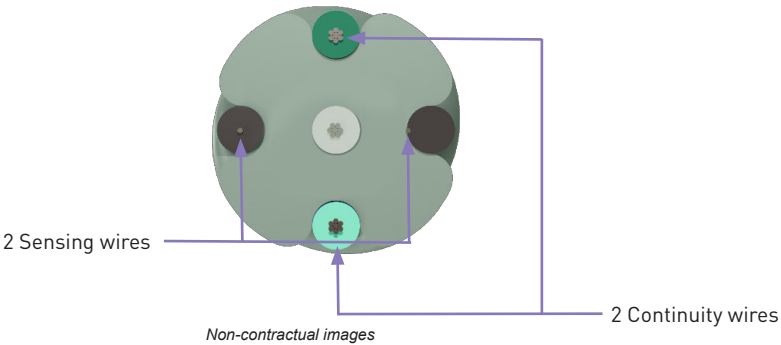


Product Information



FG-ACS Sense Cable Cutting View

2 communication wires and 2 detection and location wires



Product Diagram



Identification Codes

FG-ACP-AU	Analog Point Sensor in U-shape for Acids Detection
FG-ACP-AL	Analog Point Sensor in L-shape for Acids Detection
FG-ACP-A Customized Version	Including 2 Following Elements: <ul style="list-style-type: none">• FG-ACP-A: Enclosure• FG-ACS Sense Cable: at a Specified Length

Certification



FG-ACS sense cable is compliant to NFPA 262 (known also as UL910). NFPA: National Fire Protection Association
All TTK sense cables are designed as a part of the leak detection system and were used for the approval certification for TTK monitoring panels.

- FG-NET and FG-SYS are UL Listed.
- FG-NET system is certified FM7745.

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