



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

Description

The FG-ACP is a digital point sensor for acids / corrosive chemical liquids and water leak detection. It is designed to be used with TTK digital units FG-SYS, FG-NET or FG-BBOX to give instant detection of liquid leaks.

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

- An audible alarm is triggered and a relay is activated.
- The location of the leak (address of the FG-ACP) and details of the fault (the type of fault: leak or cable break) are displayed on the screen.
- Event report is sent to the BMS via MODBUS /JBUS protocol.

Key Advantages

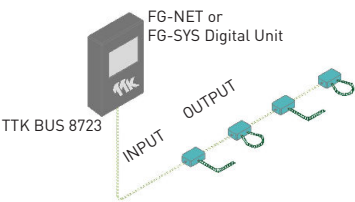
- Available in three models: sense cable in U-shape, in L-shape and in Customized Version to suit different environments.
- The digital communication is made with a length of TTK bus 8723 connected to various FG-ACP and the digital unit.
- PG7 glands on the box sides make jumper cabling quick and easy.
- 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 detects and locates rapidly a liquid leak that comes in contact with it.
- The FG-ACP detects any break or cut to the cable.
- The FG-ACP ensures permanent protection in areas at risk of acid and water leakage.
- A simple bi-annual test is all that is required.

Technical Data

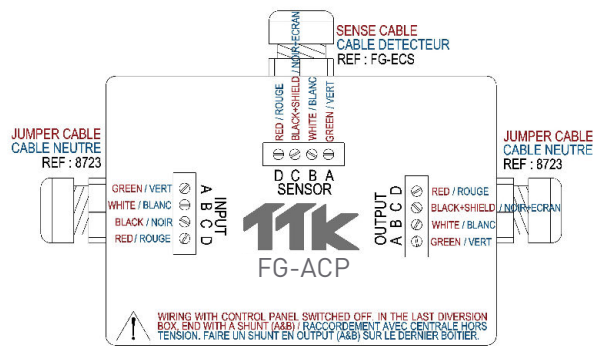
Compatibility	Digital units: FG-SYS; FG-NET; FG-BBOX
Reusability	Reusable, as long as the cable hasn't been damaged by prolonged immersion in liquid
Drying Time for Cable After Leak	Less than 10 seconds
Sense Cable Material & Nominal Diameter	PVDF, 0.3 in (± 0.02 in) (7.5 mm (± 0.5 mm))
Sensor Wires 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

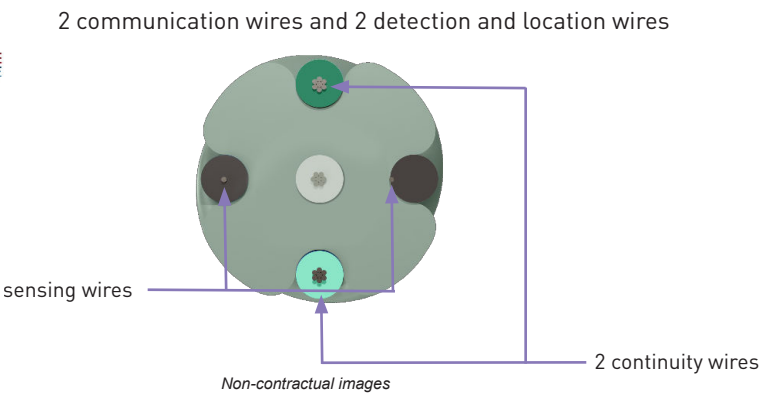
- The two models: sense cable in U-shape and L-shape can be mixed in one circuit.
FG-ACP can also be be installed in the same circuit with digital water / acid sense cables.
- Maximum: 40 FG-ACP (40 addresses) connected to one circuit of the digital unit.
- In the schematic, INPUT corresponds to the TTK BUS 8723 cable coming from the Digital Unit; OUTPUT corresponds to the TTK BUS 8723 cable leaving towards the following FG-ACP.
- In the last FG-ACP, a shunt in OUTPUT in the circuit board must be done.



Product Information



FG-ACS Sense Cable Cutting View



Product Diagram



Identification Codes

FG-ACP-U	Addressable Point Sensor in U-shape for Acids Detection
FG-ACP-L	Addressable Point Sensor in U-shape for Acids Detection
FG-ACP Customized Version	Including 2 Following Elements: • FG-ACP: 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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