



- ▶ 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

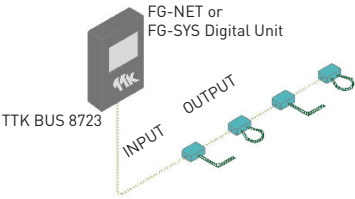
- Available in three models: sense cable in U-shape, in L-shape and in Customised Version to suit different environments.
- The digital communication is made with a length of TTK bus 8723 connected to various FG-ACP and the digital unit.
- PG7 glands on the box sides make jumper cabling quick and easy.
- 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

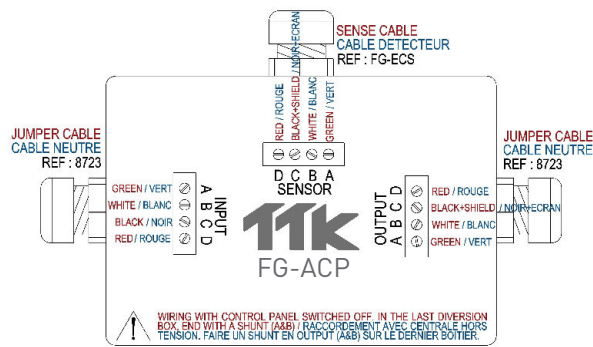
<b>Compatibility</b>	Digital units: FG-SYS; FG-NET; FG-BBOX
<b>Reusability</b>	Reusable, as long as the cable hasn't been damaged by prolonged immersion in liquid
<b>Drying Time for Cable After Leak</b>	Less than 10 seconds
<b>Sense Cable Material &amp; Nominal Diameter</b>	PVDF, 7.5 mm (± 0.5 mm)
<b>Sensor Wires Material &amp; Diameter</b>	PVDF, 1.2 mm
<b>Core Material</b>	PVDF
<b>Minimum Bend Radius</b>	20 mm
<b>Sense Cable Colour</b>	Green and light gray
<b>Operating Temperature</b>	-15°C to +55°C (Note: The sense cable itself is rated for temperatures up to +85°C.)
<b>Ingress Protection</b>	IP 67
<b>Enclosure Type</b>	ABS Polylac 707 (a natural ABS), UL94HB
<b>Dimensions (W,H,D)</b>	105mmW x 75mmH x 55mmD

# Connection Schematic

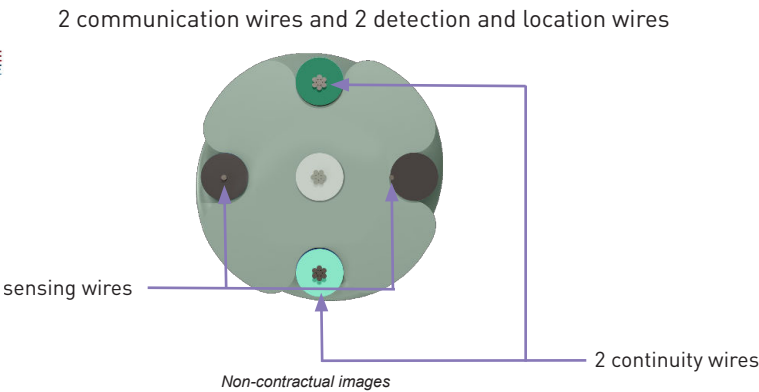
- The two models: sense cable in U-shape and L-shape can be mixed in one circuit.  
FG-ACP can also be installed in the same circuit with digital water / acids sense cables.
- Maximum: 40 FG-ACP (40 addresses) connected to one circuit of the digital unit.
- In the schematic, INPUT corresponds to the 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 Customised Version	Including 2 Following Elements: <ul style="list-style-type: none"><li>• FG-ACP: Enclosure</li><li>• FG-ACS Sense Cable: at a Specified Length</li></ul>

# 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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