

- ▶ Digital Pin-Point Leak Location
- ▶ Embedded Microprocessor
- ▶ Unique Dust-Proof Feature Efficiently Preventing False Alarms

Description

- The TTK digital sense cable FG-AC detects and pin-points the location of acids and water at any point along its length.
- The FG-AC sense cable is designed for the FG-SYS or the FG-NET digital units to smartly respond to any leaks of liquids.
- The FG-AC sense cable is installed in critical areas in order to provide permanent protection to limit the financial consequences of an undetected water and acids leak. The typical application are in laboratories, fab plants, semi-conductor plants, cleanrooms, etc.
- The FG-AC sense cable can be reused after cleaning. It is recommended to install FG-AC in a dry and clean environment for an efficient detection.

Key Advantages

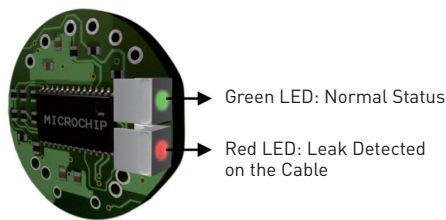
- Available in standard and pre-connected lengths. They can be interconnected to provide an expandable network of leak detection.
- Each FG-AC sense cables contain an embedded microprocessor, it intelligently monitors the cable status, it provides continuous real-time communication to the TTK digital units.
- Each cable has a high visibility LED to provide quick green/red identification of the cable status:
 - Green LED: normal status, no alarm raised;
 - Red LED: leak detection on the cable;
 - LED off: cablebreak on this or any upstream cable.
- Small diameter, light, flexible and in an easily identifiable green and light gray color.
- Ingenious design: four sensing wires of helical construction, compressed and connected on an extruded central core, **insensitive to dust contamination**.
- Fixing clips available to fasten the sense cables.
- Detects and pin-points the location of acids and water leak to the nearest meter along the entire length of the cable.
- Detects and localizes cablebreak on the cable.
- Offers short drying time.
- The FG-AC sense cable is a non-absorbent design that **can be reused** after cleaning, reducing the maintenance costs.
- **Efficiently prevents false alarms** that have been triggered by **dust, condensation and metal parts**, thanks to the unique and patented cable structure.
- Easy installation with pre-finished male and female connectors.
- Flexible design: in both liner and sector mode (via FG-DTC box).

Technical Data

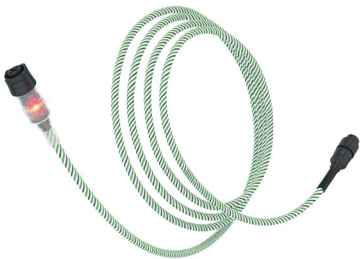
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|---|---|
| Compatibility | Digital units: FG-SYS; FG-NET; FG-BBOX Diverson box: FG-DTC |
| Reusability | Reusable, as long as the cable hasn't been damaged by prolonged immersion in liquid |
| Drying Time for Cable After Leak | 10 – 20 seconds, depending on site conditions |
| Sense Cable Material & Nominal Diameter | PVDF, 0.25 in (± 0.02 in) (6.5 mm (± 0.5 mm) |
| Sensor Wires Material & Diameter | PVDF, 0.05 in (1.2 mm) |
| Core Material | Plenum cable |
| Sense Cable Weight (9, 22, 49 ft) | 0.66 lb, 1.10 lb, 2.65 lb (0.3 kg, 0.5 kg, 1.2 kg) |
| 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 |

Product Diagram

Embedded Microprocessor in Female Connector:



FG-AC Sense Cable



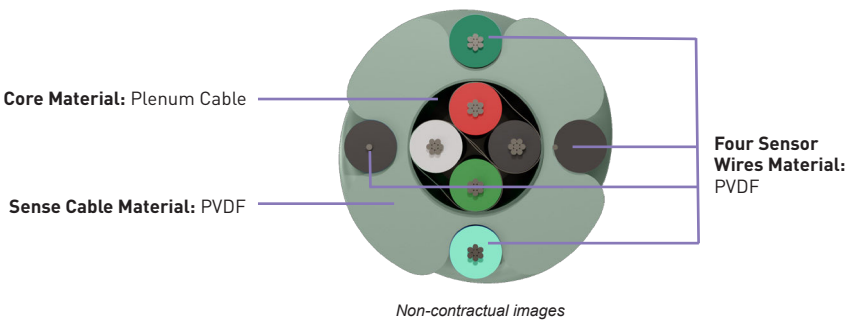
This ingenious cable structure allows the cable to:

- sense only ingress acids/ water,
- and not to be disturbed by the presence of dust and all kinds of conductive residue from the environment that has accumulated on the cable surface;

thus, efficiently preventing contamination alarms.

Unique Dust-Proof Feature
Preventing False Alarms

FG-AC Sense Cable Cutting View



Identification Codes

| | |
|--------------|---|
| FG-AC3 | Addressable Acids Sense Cable in 9 ft (3 m) with Connectors |
| FG-AC7 | Addressable Acids Sense Cable in 22 ft (7 m) with Connectors |
| FG-AC15 | Addressable Acids Sense Cable in 49 ft (15 m) with Connectors |
| Accessories: | |
| FG-CLC-PL | Plenum Leader Cable 11.5 ft (3.5 m) |
| FG-NC'N'-PL | Plenum Neutral Cable 'N': 9, 22, 49 or 98 ft (3, 7, 15 or 30 m) |
| FG-TMC | End Termination |
| FG-DTC | Digital Diversion Box |
| CF-EC100 | 100 Hold-down Clips with Adhesive |
| ES-EC | 40 Signal Tags |

Certification



FG-AC 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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