

- ▶ Digital Pin-Point Leak Location
- ▶ Embedded Microprocessor
- ▶ LED Status Indicator
- ▶ Detects Water, Acid and Corrosive Chemical Liquids
- ▶ Pre-connected in Standard Lengths

Description

- The TTK digital sense cable FG-AC detects and pin-points the location of water, acid and corrosive chemical liquids at any point along its length.
- The FG-AC sense cable is designed for the FG-SYS or the FG-NET digital units to respond intelligently in the event of 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 acid leak. The typical application are in laboratories, fab plants, semi-conductor plants, cleanrooms, etc.
- The FG-AC sense cable is made in corrosion and abrasion resistant cable that can be reused after cleaning. It is recommended to install FG-AC in a dry and clean environment for an efficient detection.

Features & Benefits

FEATURES

- Available in standard and pre-connected lengths of 3, 7 and 15 metres. 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 white colour.
- Ingenious design: four conducted wires of helical construction, compressed and connected on an extruded central core, insensitive to dust contamination, preventing false alarms.

- Fixing clips available to fasten the sense cables.
- A set of Belden 8723 jumper cables and connection accessories gives continuity to each circuit.

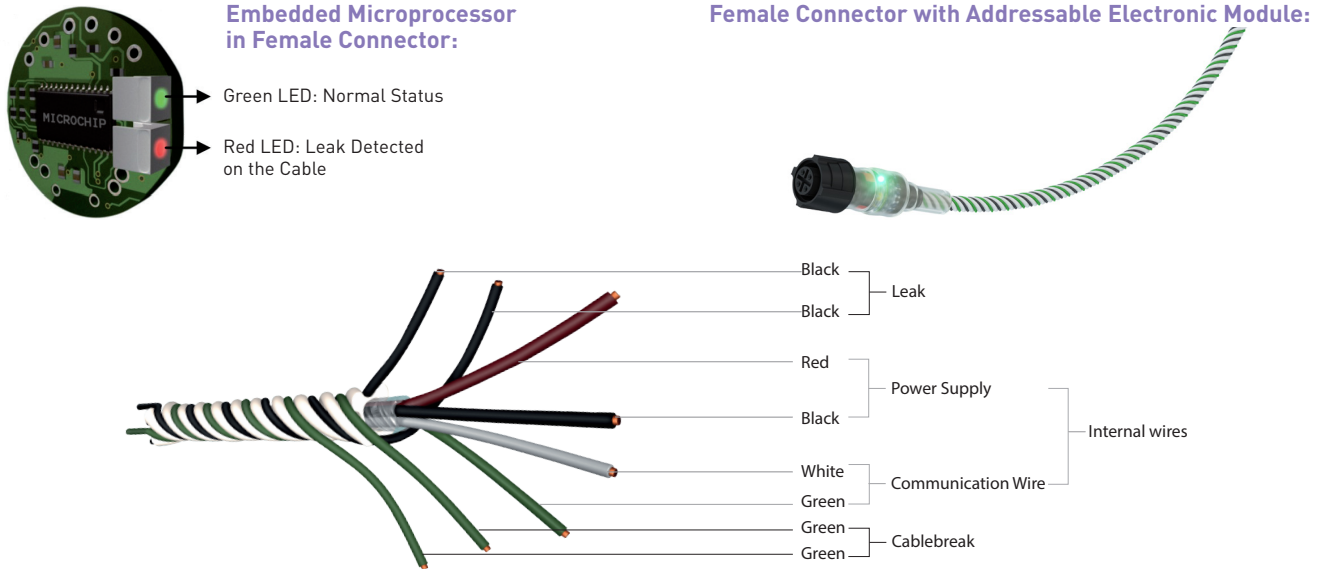
BENEFITS

- Detects and pin-points the location of water and acid leak to the nearest metre along the length of the cable.
- Detects and localizes cablebreak on the cable.
- Short drying time.
- The FG-AC sense cable is a non-absorbent design that can be reused after leaks, reducing the maintenance costs.
- Easy installation with pre-finished male and female connectors.
- Flexible design: in both liner and sector mode (via FG-DTC box).

Technical Data

Compatibility	Digital units: FG-SYS; FG-NET; FG-BBOX Diversion box: FG-DTC
Maximum Rated Temperature	85°C
Maximum Length of Digital Sense Cable per Unit	Up to 120 lengths of FG-AC, connected to 3 circuits
Connector Type	FCI-Clipper
Weight	25g per metre without connector
Sense Cable Diameter	8mm with PVDF jacket (without connector)
Four Sensor Wires Diameter	1,2 mm with PVDF jacket
Core Material	Flame-retardant low-smoke PEBD-based polymer
Liquid Quantity to Active Alarm	50-100mm on the sense cable
Drying Time	10 seconds after drying the sense cable
Breaking Strength for Sense Cable	Minimum 75 kg
FG-AC Colour	White and green

Product Diagram



Technical Information

A= The cable completely resists in the presence of the liquid considered.
 B= The cable resists, but undergoes a slow corrosion.

In all cases where a leak is detected, it is advisable to identify the source of the leak and to repair the leak quickly. In most cases the contaminated FG-AC cable can be washed and re-used.

This list is not exhaustive, for other chemicals, specific concentrations or temperatures please consult with your TTK representative.

Acetic acid	A	Hydrochloric acid	B	Glucose	A
Alcohols	A	Benzene	A	Hydrocarbons	A
Ammoniac	B	Chloroform	A	Sea water	A
Nitric acid	A	Gasoline	A	Sodium sulfate	A
Silver nitrate	A	Ethanol	A	Sodium hydroxide	B
Hydrogen peroxide	A	Hydrofluoric acid	A	Salicylic acid	A
Carbonic acid	A	Formic acid	A	Sulphuric acid	A
Ferrous chloride	A	Freon	A	Toluene	A
Calcium carbonate	A	Tar	A	Potassium hydroxide	B

Identification Codes

FG-AC15	Addressable Acids Sensing Cable in 15m With Connectors
FG-AC7	Addressable Acids Sensing Cable in 7m With Connectors
FG-AC3	Addressable Acids Sensing Cable in 3m With Connectors
Accessories	
FG-CLC	Leader Cable 3,5m, on 'TTK Bus 8723'
FG-NC(x)	Belden jumper cables in variety of lengths (x): 3, 7, or 15 metres
FG-TMC	Digital End Plug for FG-EC/AC Cables
FG-DTC	Diversion Box for 'TTK Bus 8723'
CF-EC100	100 Hold-down Clips with adhesive for Water & Acids Cables
ES-EC	40 Tags for Water & Acids Cables

Certificates



FG-AC sense cable is certified by NFPA 262 (known also as UL910). NFPA: National Fire Protection Association
 FG-AC sense cable has passed successfully the UL719 test for abrasion resistance of jacket on flat cable.

All TTK sensing cables are designed as a part of the leak detection system thus included in the approval certification for TTK monitoring panels.

- FG-NET and FG-SYS systems meet the requirements of all European Standards in EN 50081 and EN 50082 EMC.
- FG-NET and FG-SYS systems meet the TÜV requirements, according to IEC 61010-1/A2.
- FG-NET and FG-SYS systems are UL Listed.

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