Addressable Water & Acid Leak Detection Systems

Products Catalogue

LOCATING ALARM UNITS

FG-NET

- All Liquids (**Water, Acid & Oil**) Leak Detection With Location Mapping
- Digital, Fully Addressable
- Monitoring Up To 500 Lengths (7 500m) Of Sense Cables On 3 Independant Circuits
- Touch Screen Interface
- TCP/IP & MODBUS/JBUS
- Dedicated Software TTKweb

FG-SYS

- Water & Acid Leak Detection With Location Mapping
- Digital, Fully Addressable
- Monitoring Up To 120 lengths (1 800m) of Sense Cables On 3 Independant Circuits
- TCP/IP & MODBUS/JBUS
- Dedicated Software TOPSurveillance

FG-ALS8

- 8 Independent Zones Alarm & Locating System Unit For Water & Acid Leak Detection
- Monitor Up To 100m Of Sense Cable Per Zone
- 9 Integrated Relays
- 8 Simultaneous Leaks Can Be Detected
- Touch Screen Display
- MODBUS/JBUS, RS485

FG-ALS4

- 4 Independent Zones Alarm & Locating System Unit For Water & Acid Leak Detection
- Monitor Up To 45m Of Sense Cable Per Zone
- 5 Integrated Relays
- 4 Simultaneous Leaks Can Be Detected
- Touch Screen Display
- MODBUS/JBUS, RS485

SINGLE SENSOR ALARM UNIT

FG-A

- Monitor Up To 15m Water or Acid Analog Sense Cable
- Quick Detect & Locate Leak On Cable
- Simple Unit For Installation And Use
- 2 Integrated Relays
- 3 LED Indicators
- Available In Wall Mounted And Rack Mounted Version

SATELLITE DEVICES

BATTERY BACKUP

- Provides Instant Battery Power
- Allows Continued Protection
- LED Lighting provides Fast Identification of the Device
- Easy to Use

FG-BBOX

- Digital, Fully Addressable
- Monitoring Up to 1200m Sense Cables
- Location of Faults to 1m
- Compatible With Different Sense Cables

FG-RELAYS

- 24 Configurable External Relay
- Up to 16 FG-RELAYS = 384 External Relays on a FG-NET Digital Unit
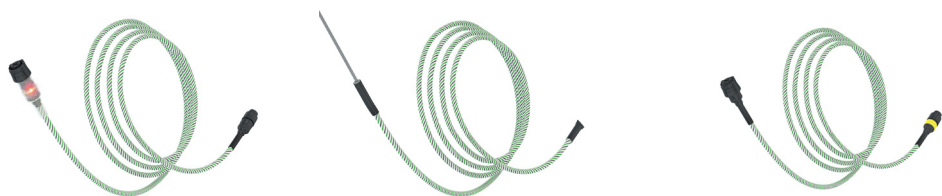
WATER & BASE LEAK SENSE CABLES

FG-EC	FG-ECB	FG-ECS	FG-ECX
• Digital Sense Cable	• Digital Sense Cable	• Analog Sense Cable	• Analog Sense Cable
• Pin-Point Leak Location	• Designed for **Suspended Pipe Solution**	• Compatible with Both Digital & Analog Panels	• Compatible with FG-ALS8, ALS4 & FG-A Panels
• Made in Low Smoke Zero Halogen Material	• Braid on External of Cable	• Made in Low Smoke Zero Halogen Materials	• Made in Low Smoke Zero Halogen Materials
• Fast Detection & Quick Dry	• Made in Low Smoke Zero Halogen Material	• Fast Detection & Quick Dry	• Fast Detection & Quick Dry
• **Embedded Microprocessor**	• Pin-Point Leak Location	• **Equiped 3.5m Jumper Cable And End Termination**	• Pre-connected in Standard Lengths
• LED Status Indicator	• **Embedded Microprocessor**		
• Pre-connected in Standard Lengths	• LED Status Indicator		
	• Pre-connected in Standard Lengths		

The applications of TTK Water & Base sense cables are wide: **data centres, trading floors, high value and mission critical infrastructure, water treatment plants, archive rooms, technical rooms, chilled water pipes, hospitals, etc.**

The FG-EC range of sense cables are made with special **Low Smoke Zero Halogen (LSZH or LS0H)** materials, it emits limited smoke and no halogen when exposed to high sources of heat.
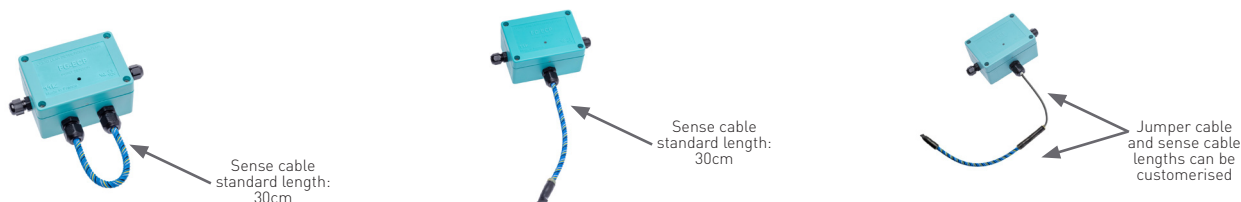
WATER & ACID LEAK SENSE CABLES

FG-AC	FG-ACS	FG-ACX
• Digital Sense Cable	• Analog Sense Cable	• Analog Sense Cable
• Corrosion, Abraison Resistant	• Corrosion, Abraison Resistant	• Corrosion, Abraison Resistant
• Pin-Point Leak Location	• Compatible with Digital & Analog Panels	• Compatible with FG-ALS8, ALS4 & FG-A Panels
• Fast Detection	• Fast Detection	• Fast Detection
• **Embedded Microprocessor**	• **Equiped 3.5m Jumper Cable And End Termination**	• Pre-connected in Standard Lengths
• LED Status Indicator		
• Pre-connected in Standard Lengths		

The typical applications of TTK Acid sense cables are **laboratories, fab plants, cleanrooms**, etc.

The FG-AC range of sense cables are made in corrosion and abrasion resistant cable that **can be reused** after cleaning.

TTK offers **oil leak detection solutions** with a range of specific monitoring panels and re-usable fuel sense cables. Please refer to TTK OD catalogue to view product details.

WATER & BASE LEAK POINT SENSORS

Sense cable standard length: 30cm

Sense cable standard length: 30cm

Jumper cable and sense cable lengths can be customerised

FG-ECP U	FG-ECP L	FG-ECP Customized
	• Detects and Locates Water Leaks • Available in 3 models • Compatible with Digital Systems • **IP68** Protection Marking • LED Indicator • MODBUS /JBUS	

Acid leak point sensors use the same principal. Consult your TTK representor.

ACCESSORIES

Boxes	Leading Cable & Kit	Accessories for Installation
• FG-DTM: Bus interface box • FG-DTC: Bus diversion box • FG-DTCS: addressable box • FG-DCTL: addressable box	• FG-CLC: Leader cable in 3.5m to connect the first water sense cable to the digital units. • FG-NC: Jumper cable (reference TTK BUS 8723) for connecting two sensing cables in a none risk area. • FG-NC Kit: Set of parts for connecting jumper cable.	• End termination: Each circuit of sense cable must be ended with an end termination plug • Set of hold-down clips • Set of tags

Certificates

LOCATING ALARM UNITS

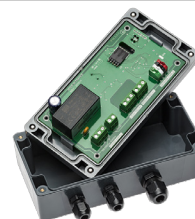| FG-NET-LL	FG-NET	FG-ALS8-OD	FG-ALS4-OD
• Developed for long distance hydrocarbon detection and location within the Oil & Gas industry • Digital, Fully Addressable • Monitoring Up to 2400m Sense Cables • Touch Screen Interface • TCP/IP & MODBUS/JBUS	• Suitable for water, acid and oil leak detection with location mapping. • Same Functions as FG-NET-LL.	• 8 Zones Alarm & Locating System Unit • 9 Relays Embedded • 8 Independent Zones • 8 Simultaneous Leaks can be Detected • Touch Screen Display • MODBUS/JBUS	• 4 Zones Alarm & Locating System Unit • 5 relays Embedded • 4 Independent Zones • 4 Simultaneous Leaks can be Detected • Touch Screen Display • MODBUS/JBUS

STAND-ALONE ALARM UNIT

SINGLE SENSOR ALARM UNIT

FG-STAD	FG-A-OD
• Stand-alone, Independent System • Functions Without Fixed Voltage Power Supply • Embedded Battery: 3 Years+ Lifepan • 2 Unipolar Outputs	• Capable of monitoring one oil detection sense cable of up to 20 metres • Simple unit for installation and use • 2 SPDT Relays • 3 LED Indicators

SATELLITE DEVICES

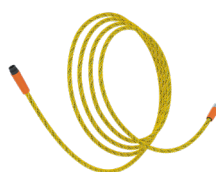| BATTERY BACKUP	FG-BBOX-LL	FG-BBOX	FG-RELAYS
• Provides Instant Battery Power • Allows Continued Protection • LED Lighting provides Fast Identification of the Device • Easy to Use	• Monitoring up to 2360m Sense Cables • Dynamic Leak Evolution Analysis • Location of Faults on Cable • Exclusive for Oil Sense Cable	• Digital, Fully Addressable • Monitoring Up to 1200m Sense Cables • Location of Faults to 1m • Compatible With Different Sense Cables	• 24 Configurable External Relay • Up to 16 FG-RELAYS = 384 External Relays on a FG-NET Digital Unit

OIL LEAK SENSE CABLES & POINT SENSOR

FG-ODC

- High Sensitivity Sense Cable
- Very Fast Response with Light and Middle Distillates
- Sensitive to Heavy Oils and Hydrocarbon Vapors
- Leak Location on Section Length
- Re-usable Cable
- Suitable for Explosive Area Service
- Insensitive to Water and Inorganic Pollutants
- Standard Lengths (3 m, 7m and 12m)
- Examples of detection time: Gasoline: 1-2 minutes (*), Diesel Oil: 7-12 minutes (*)

FG-OD

- Intermediate Sensitivity Sense Cable
- Fast Response with Light and Middle Distillates
- Leak Location on Section Length
- Re-usable Cable
- Suitable for Explosive Area Service
- Insensitive to Water and Inorganic Pollutants
- Standard Lengths (3 m, 7m, 12m and 20m)
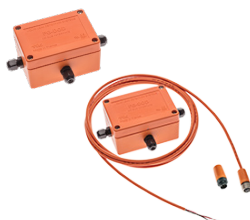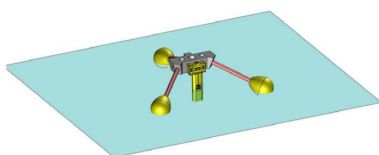- Examples of detection time: Gasoline: 3-6 minutes (*), Diesel Oil: 25-35 minutes (*)

FG-ODR

- Low Sensitivity Sense Cable
- Suitable for Volatile Liquids in Confined Environments
- Suitable for Weakly Polluted Environments
- Leak Location on Section Length
- Re-usable Cable
- Suitable for Explosive Area Service
- Insensitive to Water and Inorganic Pollutants
- Standard Lengths (3 m, 7m, 12m and 20m)
- Examples of detection time: Gasoline: 20-30 minutes (*), Diesel Oil: 3-6 hours (*)

FG-ODP

- Oil Point Sensor
- Fully Addressable, Locating
- Fast Response, Re-usable
- Suitable for Explosive Area Service
- Insensitive to Water and Pollution

ACCESSORIES

FG-FLOAT

FG-FLOAT is a float assembly designed to be used with FG-ODP, the point sensor for oil leak detection - in sump application and other similar applications, to detect oil floating on water.

Boxes

- Interface box
- Point sensor diversion box

Leading Cable & Kit

- Leader cable in 3.5m to connect the first OD sense cable to the digital units.
- Set of parts for connecting FG-OD jumper cable.

Accessories for Installation

- End termination: Each circuit of sense cable must be ended with an end termination plug
- Set of hold-down clips
- Set of tags

Certificates

TTK - Type: FG-OD
CE 0081 ⟨Ex⟩ II 1 G
Ex ia IIB T4 Ga
LCIE 13 ATEX 3082 X
LECEx LCIE 13.0072X

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