

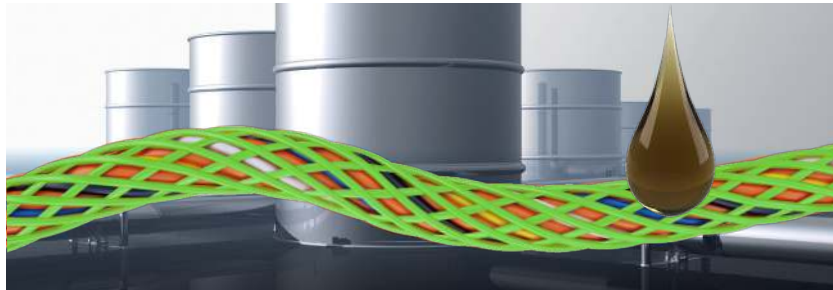


LIQUID LEAK DETECTION SYSTEMS  
OIL & GAS DIVISION

# FG-ODC+

## High Sensitivity Addressable Oil Sense Cable

### Product Datasheet



- ▶ Very High Sensitivity
- ▶ Very Fast Response with Light and Middle Distillates
- ▶ Sensitive to Heavy Oils and Hydrocarbon Vapors
- ▶ Leak Location on Section Length
- ▶ Pre-connected Cable
- ▶ Suitable for Explosive Area Service
- ▶ Insensitive to Water and Inorganic Pollutants

## Description

- FG-ODC+ is a digital sense cable with very high sensitivity for detection and location of liquid hydrocarbons and liquid insoluble in water and their vapors, along the entire length.
- It allows multiple leak detection and location thanks to independent digital addressing, enabled by an embedded microchip in each FG-ODC+ sense cable.
- The sensor element is optimized for very fast response with light to middle distillates, and is sensitive to heavy oils such as conventional crude oils, dilbit / synbit, as well as to hydrocarbon vapors.
- Can be installed in humid environment, as it is insensitive to water and inorganic contamination.

## Features & Benefits

### FEATURES

- Standard length (9 ft or 3 m) sensor sections.
- Microcontroller embedded in each FG-ODC+ sense cable allowing independent digital transmission to the alarm unit.
- Standard length sense cable provided with built-in plug-socket connector.
- Structure of the sense cable comprising a silicon sensing wire, a continuity wire, a communication wire (proprietary bus) and the power supply wires. Protective external PE braid built on the cable.
- Intrinsically safe - can be used in classified areas: Ex ia IIB T4 Ga (IECEx "Zone 0").

### BENEFITS

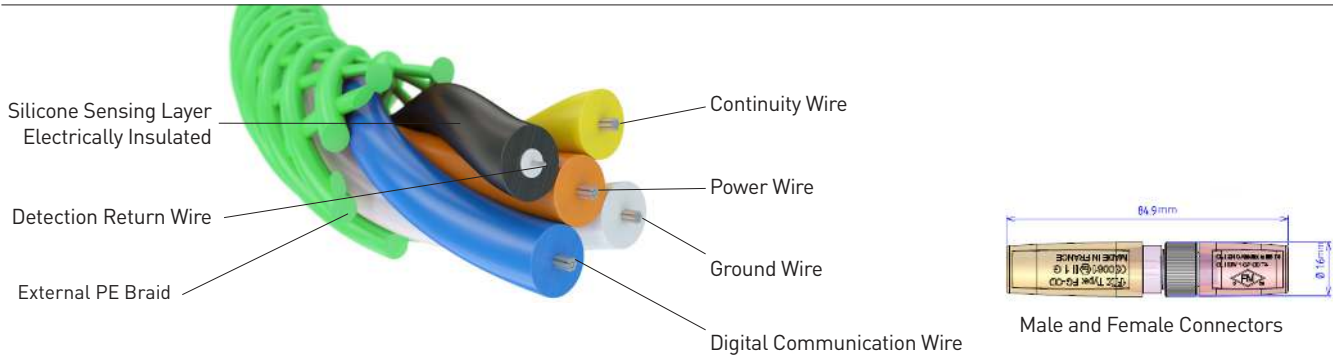
- Reliable detection:
  - Sensitive to heavy oils and vapors.
  - Insensitive to water, inorganic pollutants and external loads (pressure).
- High sensitivity: examples of detection time: **Diesel at 3-5 minutes (\*)**, **Gasoline: less than 1 minute (\*)**.
- Detects and locates hydrocarbon leaks on the section length.
- The same unit FG-NET can be connected to FG-ODC+ sense cables and mixed with water or acids / bases sense cables at the same time.
- Easy to install and remove: standard FG-ODC+ cables pre-connected with male / female connectors.

Note (\*): depending on liquid composition and leak conditions

## Connectivity & System Capacity

<b>Connectivity</b>	Digital units: FG-NET, FG-NET-LL, FG-ALS8-OD, FG-ALS4-OD, FG-A-OD, FG-STAD Satellite devices: FG-BBOX, FG-BBOX-LL Compatible with sector or linear water or acids / bases sense cables
<b>System Capacity</b>	9 ft (3m) standard length per FG-ODC+ sense cable Up to 59 x FG-ODC+ sense cables per digital unit circuit - depending on overall circuit length 3 circuits per FG-NET, 2 circuits per FG-BBOX

# Cable Structure



## Technical Data

<b>Cable nominal diameter</b>	0.39 in (10 mm)
<b>Connector nominal diameter</b>	0.63 in (16 mm)
<b>Cable nominal weight</b>	0.047 lb/ft (70 g/m)
<b>Min. bending radius</b>	1.57 in (40 mm)
<b>Max. Pressure</b>	3 bar
<b>Min. Max. working temperature</b>	-22° ≤ Tamb ≤ 212°F (-30° ≤ Tamb ≤ +100°C)
<b>Direct burial</b>	Possible
<b>Maximum tensile strength (incl. connection)</b>	88 lb (40 kg)
<b>Expected life span (at working conditions)</b>	>10 years
<b>Explosive area classification</b>	Ex ia IIB T4 Ga (ATEX "Zone 0")
<b>Connector protection index classification (DIN/EN/IEC60529)</b>	IP 68

## Identification Codes

<b>FG-ODC+ 3</b>	Addressable Oil Sensing Cable in 3m (9 ft) with Connectors
<b>FG-ODC+ Lxxyy/xyyy/xyyy</b>	Pre-Assembled Addressable Oil Sensing Cable with connectors xx=length of sections, yy= number of sections <b>i.e.:</b> FG-ODC+L0304: Pre-assembled 4 lengths of cables FG-ODC+L : 4 sections of 3m (9 ft)
<b>Accessories:</b>	
<b>FG-DOD KIT</b>	Kit including FG-DOD interface box + FG-CLOD leader cable + FG-TMOD end plug
<b>FG-CLOD</b>	Leader Cable, on 'OD Bus 8771'
<b>FG-TMOD</b>	Digital End Plug on 'OD Bus 8771' for FG-ODR Cable
<b>FG-NOD 'N'</b>	'OD Bus 8771' Neutral Cable 'N' (30, 15, 7, 3, 1m) (98, 49, 22, 10, 3 ft) With Connectors
<b>ES-OD</b>	40 Tags for Oil Cable
<b>CF-OD50</b>	50 Hold-down Clips with adhesive for Oil Cables

## Certificates



This brochure has been carefully prepared to ensure technical accuracy but is only intended for promotional use. TTK cannot guarantee that the information contained herein contains no errors or omissions, and hence does not accept responsibility related to the use of its equipment. TTK maintain its obligations set forth in the Standard Terms and Conditions of Sale and will not, under any circumstances, assume liability for any incidental damages, indirect or consequential, arising from the sale, resale, use or misuse of this product. The purchaser(s) accept their responsibility as the sole judge(s) of the adaptability of the product for the intended use. FG-NET, FG-SYS and TOPSurveillance are trademarks of TTK S.A.S. © TTK 2021

- **TTK Headquarters** / 19 rue du Général Foy / 75008 Paris / France / T : +33.1.56.76.90.10 / F : +33.1.55.90.62.15 / [www.ttk.fr](http://www.ttk.fr) / [ventes@ttk.fr](mailto:ventes@ttk.fr)
- **TTK Oil & Gas Division** / 19 rue du Général Foy / 75008 Paris / France / T : +33.1.30.51.79.84 / F : +33.1.55.90.62.15 / [www.ttk.fr](http://www.ttk.fr) / [rrisi@ttk.fr](mailto:rrisi@ttk.fr)
- **TTK UK Ltd.** / 3 Luke Street / London EC2A 4PX / United Kingdom / T : 0207 729 6002 / F : 0207 729 6003 / [www.ttkuk.com](http://www.ttkuk.com) / [sales@ttkuk.com](mailto:sales@ttkuk.com)
- **TTK Pte Ltd.** / #09-05, Shenton House, 3 Shenton Way / Singapore 068805 / Tel.+65-6220.2068 / Mob: +65.9271.6191 / Fax. +65-6220.2026 / [www.ttk.sg](http://www.ttk.sg) / [sales@ttk.sg](mailto:sales@ttk.sg)
- **TTK Asia Ltd.** / 2107-2108 Kai Tak Commercial Building / 317 Des Voeux Road Central / Hongkong / Tel.+852.2858.7128 / Fax.+852.2858.8428 / [www.ttkasia.com](http://www.ttkasia.com) / [info@ttkasia.com](mailto:info@ttkasia.com)
- **TTK Middle East FZCO** / Building 6EA, Office 510 PO Box 54925 / Dubai Airport Free Zone / UAE / T: +971 4 70 17 553 / M: +971 50 259 66 29 / [www.ttkuk.com](http://www.ttkuk.com) / [cgalliche@ttk.fr](mailto:cgalliche@ttk.fr)
- **TTK Deutschland GmbH** / Berner Strasse 34 / 60437 Frankfurt / Deutschland / T : +49(0)69-95005630 / F : +49(0)69-95005640 / [www.ttk-gmbh.de](http://www.ttk-gmbh.de) / [vertrieb@ttk-gmbh.de](mailto:vertrieb@ttk-gmbh.de)
- **TTK North America Inc** / 1730 St. Laurent Boulevard, Suite 800 / Ottawa, ON K1G 5L1 / Canada / T : +1 613 566 5968 / [www.ttkcanada.com](http://www.ttkcanada.com) / [info@ttkcanada.com](mailto:info@ttkcanada.com)
- **Thomas Sales & Marketing Inc. TTK Master Distributor For USA** / 7200 W 66th St / Bedford Park, IL 60638 / The United States / T: +1 630-518-4724 / [www.ttkusa.com](http://www.ttkusa.com) / [dmolk@ttkusa.com](mailto:dmolk@ttkusa.com)