

FG-ODR Low Sensitivity Addressable Oil Sense Cable

Product Datasheet



- Low Sensitivity
- Suitable for volatile liquids in confined environments
- Suitable for weakly polluted environments
- Leak Location on Section Length
- Re-usable and Pre-connected Cable
- Suitable for Explosive Area Service
- Insensitive to Water and Inorganic Pollutants

Description

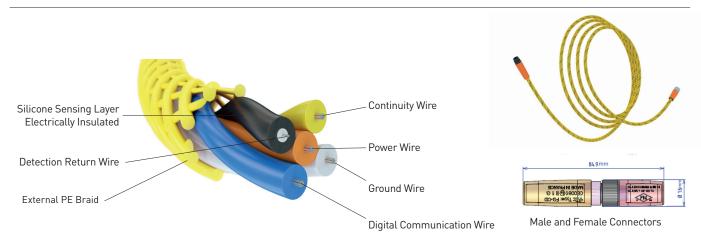
The TTK digital sense cable FG-ODR detects and locates liquid hydrocarbons and certain water-insoluble liquids and their vapors anywhere along its length. The sensor element is optimized for using with volatile liquids in confined environments and weakly polluted environments. Thanks to its embedded microchip, each cable has independent digital addressing, enabling multiple leak detections on a panel output. It offers a fast response, is reusable after detection, and remains unaffected by water or inorganic contamination, making it ideal for humid environments.

Key Advantages

- Standard length (3, 7, 12 and 20 m) sensor sections or long line section allowing optimised system architecture.
- Microprocessor embedded in each FG-ODR sense cable allowing independent digital transmission to the alarm unit.
- Standard length sense cable provided with built-in plug-socket connector.
- Long line provided with built-in intermediate embedded connections (for each section), plus connector at extremities on demand.
- 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").

- Reliable detection:
 - Sensitive to volatile liquid hydrocarbons.
 - Insensitive to water, inorganic pollutants and external loads (pressure).
- Can be reused, allowing leak detection tests under real conditions.
- Examples of detection time: Gasoline: 20-30 minutes (*), Jet Fuels: 2-4 hours (*), Diesel Oil: 3-6 hours (*).
- Detects and locates hydrocarbon leaks on the section length.
- The same unit FG-NET can be connected to FG-ODR sense cables and mixed with water or acids / bases sense cables at the same time.
- Easy to install and remove: standard FG-ODR cables pre-connected with male / female connectors.

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



Cable Structure

Technical Data

Sat Sen an i (*F0	ital units: FG-NET*, FG-NET-LL, FG-ALS8-OD, FG-ALS4-OD, FG-A-OD ellite devices: FG-BBOX*, FG-BBOX-LL se cables: Compatible with water and acids sense cables on the same panel output via nterface box. 3-DOD interface box required for connecting OD range cables/probes to non-OD range els)
ity Reu	Isable
ble Material & Nominal Diameter PE,	10 mm
Vires Diameter & Material PE,	2 mm
able Weight (3, 7, 12, 20 m) 0.3	kg, 0.6 kg, 0.8 kg, 1.37 kg
n Bend Radius 50 r	nm
ble Color Yell	ow braid
g Temperature -30	° to 100°C
n Pressure 3 ba	ar
n Tensile Strength (incl. connection) 40 k	g
or Nominal Diameter 16 r	nm
or Ingress Protection (IP Rating - DIN/ IP 6 0529)	8
e Area Classification Ex i	a IIB T4 Ga (ATEX "Zone 0")
rial Capacity Pos	sible

Identification Codes

FG-0DR3	Addressable Oil Sense Cable in 3 m with Connectors
FG-0DR7	Addressable Oil Sense Cable in 7 m with Connectors
FG-0DR12	Addressable Oil Sense Cable in 12 m with Connectors
FG-0DR20	Addressable Oil Sense Cable in 20m with Connectors
Accessories:	
FG-CLOD	Leader Cable, on OD Bus 8771
FG-TMOD	Digital End Plug on OD Bus 8771 for FG-OD Cable
FG-NOD 'N'	OD Bus 8771 Neutral Cable 'N' (1, 3, 7, 15, 30 m) with Connectors
CF-0D50	50 Hold-down Clips with Adhesive for Oil Cables
ES-OD	40 Tags for Oil Cable

Certifications



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