



LIQUID LEAK DETECTION SYSTEMS

OIL & GAS DIVISION

FG-STAD

Standalone Alarm Unit For Hydrocarbon Leak Detection Sensor

Product Datasheet



- ▶ Stand-alone and Independent System
- ▶ 2 Unipolar Outputs
- ▶ Embedded Battery
- ▶ Exclusive for FG-OD Range Products

Description

The FG-STAD is designed to be used with the TTK FG-OD range of hydrocarbon leak detection sense cables, or the hydrocarbon point sensor, FG-ODP.

It allows TTK sense cables or point sensors to function in a fully stand-alone mode, without fixed voltage power supply, thanks to its embedded battery.

It also allows easy interfacing to third-party supervising equipment and is equipped with two unipolar outputs. One output reacts when the connected sense cable or point sensor detects a hydrocarbon leak, the other when a system fault appears.

Features & Benefits

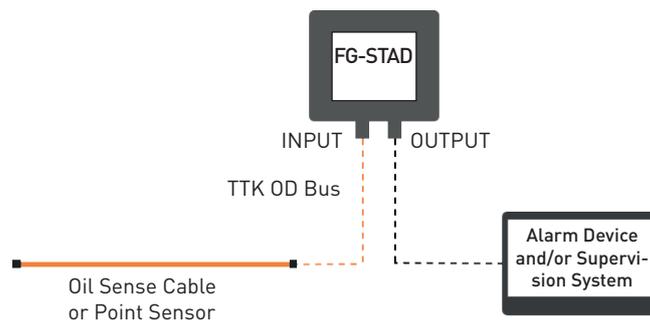
FEATURES

- The FG-STAD unit monitors one hydrocarbon leak point sensor or one hydrocarbon sense cable.
- No voltage supply is needed, the panel is supplied with an embedded battery with a lifespan of at least three years.
- Accessible terminals for quick installation.
- Two discreet unipolar outputs which provide easy interfacing to third-party supervising equipment.
- External alarm device: flashing light, buzzer, horn, ...

BENEFITS

- The FG-STAD is simple to use and install, and is ideal for a small or/and remote application for hydrocarbon leak detection.
- Minimal maintenance, with a periodical battery change every three years being all that is required.

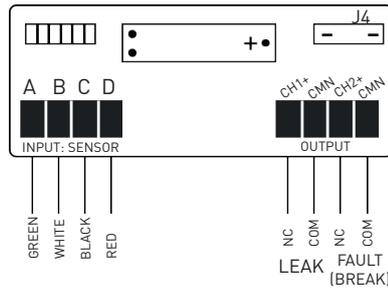
Schematic



Technical Data

Compatibility	Hydrocarbon sense cables: FG-OD, FG-ODC, FG-ODR; Point Sensor: FG-ODP
Capacity	Capacity limited to 1 detector, either a hydrocarbon point sensor or a hydrocarbon sense cable
Enclosure Type	IP65 ; aluminum alloy
Glands Material	Stainless steel
Operating Temperature	-22° to 176°F (-30° to 80°C)
Max. Switching Capacity	24VCC and 50mA
Supply Voltage	No voltage supply
Dimensions (W,H,D)	4.53"W x 3.54"H x 2.17"D (115mmW x 90mmH x 55 mmD)

Mounting



CH1+: Channel 1 - corresponds to the leak.

CH2+: Channel 2 - corresponds to the cable break.

CMN: Common

- UNIT ON-OFF SWITCH: J4 : To be moved to ON (internally) position to power-on the unit.
- The two channels are polarized, it is necessary to respect the + and the -.
- The two channels operate in NC (closed in normal, and open in alarm).
- If the battery is out of service, both channels are in alarm.

- When FG-STAD is used with a hydrocarbon sense cable (FG-OD / FG-ODR / FG-ODC), connect only 3 white-black-red wires respectively to terminals B-C-D. The terminal A is not be used since there is no green wire. No need to add a shunt or resistor.
- When FG-STAD is used with a hydrocarbon point sensor FG-ODP, connect the 4 green-white-black-red wires respectively to terminals A-B-C-D.

Identification Codes

FG-STAD	Standalone Alarm Unit For Hydrocarbon Leak Detection Sensors
FG-OD	Addressable Oil Sense Cable
FG-ODC	High Sensitivity Addressable Oil Sense Cable
FG-ODR	Low Sensitivity Addressable Oil Sense Cable
FG-ODP	Addressable Oil Point Sensor
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' (98, 49, 22, 9 ft) (30, 15, 7, 3, 1m) With Connectors
CF-OD50	50 Hold-down Clips with Adhesive for Oil Cables
ES-OD	40 Tags for Oil Cables

Certificates



ATEX / IECEx certificates for FG-STAD alarm & location unit are in progress.

FG-OD sense cables which are certified by ATEX can be connected to the FG-STAD alarm & location unit.

The FG-STAD unit meets the requirements of all European Standards in EN61000-6-2 / EN61000-6-3/EN61000-3-2/EN61000-3-3.

All the connections in the FG-STAD alarm locating system unit must be done with the power supply switched off.

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