

FGD5/6-IR Infrared Gas Detector

For Direct Replacement of Oil & Gas Industry Pellistors



- MTBF of 5 years
- Compatible with industry standard control panels
- Remote gas testing facility
- Constructed in grade 316 stainless steel and nylon
- Self heating to protect against obscuration
- Does not utilise mirrors, lenses or separate heaters
- Output signal can be set as rising or falling
- Avoids poisoning issues typically seen with pellistor sensors

Description

The FGD56-IR is an explosion-protected, ATEX/IECEx approved fixed infrared gas detector designed for direct replacement of pellistors in oil & gas applications. Constructed from 316 stainless steel and featuring remote gas test capability, it offers a 5-year MTBF, minimal maintenance, selectable rising/falling output, and an optional weather guard for enhanced reliability.



**Plug-in
Infrared Sensor**

Specifications

Size	Body 94mm long x 50mm diameter, thread 20mm long. Overall body length with weatherguard fitted = 170mm
Material	Sensor Body - Stainless Steel Grade 316 Weatherguard - Stainless Steel Grade 304 & Nylon 66
Mounting thread	M20 X 1.5
Weights	1 Kg including Weatherguard
Recommended operating current	160 to 250mA (200mA version) 250 to 350 mA (300mA version)
Gas types	Hydrocarbons. Note: Infrared sensors have no response to Hydrogen
Operating voltages	3.2 to 7.5 volts dc at detector head
Max. short term overload voltage	24 volts dc
Output signal	15 to 30 mV / % CH4
Sensor type	NDIR Infrared

Measurement range	0-100% LEL (5% vol. CH4) or 0-100% volume CH4
Measurement resolution	1% LEL or 1% volume (CH4)
IP rating	Enclosure IP66, Sensor IP65
Operating temperature	- 20 to +50 °C
Storage temperature	- 20 to +50 °C
Humidity range	0 to 95% RH non-condensing
Operating pressure	Atmosphere + or - 10%

Hazardous Area Certification	
Certificate numbers	CSANe 22ATEX1187U CSAE 22UKEX1395U IECEx CSAE 23.0010U
Certification code	II 2G Ex db IIC Gb
Standards	EN IEC 60079-0: 2018 EN 60079-1: 2014 IEC 60079-0:2017 Edition:7.0 IEC 60079-1:2014 Edition:7.0
Zones	1 & 2

Connections	
Red	V+
Black	0 volts
White	Signal, proportional to gas level
Blue	Signal direction: Falling, connect to 0v (Black) Rising, connect to V+ (Red)
Green/Yellow	Earth

Sensing head mounted in associated weatherguard constructed in Grade 304 stainless steel and nylon

Push-in connector suitable for 6mm O/D tubing to facilitate remote gas testing

