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Status Scientific Controls Gas Detection Technology



FGD5/6-IR Infrared Gas Detector For Direct Replacement of Oil & Gas Industry Pellistors

- No routine maintenance required*
- Lowest operating costs
- Lowest price IR Detector
- Smallest size IR Detector
- Eliminates all poisoning problems associated with pellistors
- Patent No. GB2401679

Plug-in

Infrared

Sensor

SHELL THORNTON LABORATORY TESTED & APPROVED

Features

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- 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

* Routine gas testing only is required because the test gas is applied externally, all physical and electrical elements of the instrument are tested to confirm continued safe operation.





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FGD5/6-IR Infrared Gas Detector

For Direct Replacement of Oil & Gas Industry Pellistors



Sensor and weatherguard with gas testing facility

Mounted vertically to maximise resistance to water ingress

OVERALL LENGTH WHEN MOUNTED IN WEATHERGUARD = 170mm (6 3/4")

Specification

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Size	Body 94mm long x 50mm diameter, thread 20mm long. Overall body length with weatherguard fitted = 170mm	Red		
		Black		
Material	Sensor Body - Stainless Steel Grade 316 Weatherguard - Stainless Steel Grade 304 & Nylon 66		Signal, proportional to gas level	
Mounting thread	M20 X 1.5 or M25 X 1.5 or ½" NPT	Signal direction: Falling, connect to Ov (Black)	Falling, connect to Ov	
Weights	1 Kg including Weatherguard	F	Rising, connect to V+	
Recommended operating current	160 to 250mA (200mA version) 250 to 350 mA (300mA version)	Green/ Yellow		IS SENSO
Gas types	Hydrocarbons. Note: Infrared sensors have no response to Hydrogen		0	
Operating voltages	3.2 to 7.5 volts dc at detector head	Sensing head mounted in associated weatherguard constructed in Grade 304 stainless steel and nylon		
Max. short term overload voltage	24 volts dc			
Output signal	15 to 30 mV / % CH4	Push-in connector suitable		
Sensor type	NDIR Infrared	for 6mm 0/D tubing to facilitate remote gas testing		
Measurement range	0-100% LEL (5% vol. CH4) or 0-100% volume CH4			
Measurement resolution	1% LEL or 1% volume (CH4)	European Hazardous Area 'ATEX' Certification		
IP rating	Enclosure IP66, Sensor IP65	Certificate KEMA 03ATEX2247U		
Operating temperature	- 20 to +50 ⁰ C	numbers Certification	IECEx KEM 06.0022U	
Storage	- 20 to +50 ⁰ C	code	II 2 G Ex d IIC T4(-20°C <ta<+60 °c)<br="">EN 60079-0:2018</ta<+60>	
temperature Humidity range	Infrared – 0 to 95% RH non-condensing	Standards	EN 60079-1:2014 IEC 60079-0:2004 Edition 4.0	
Operating pressure	Atmosphere + or - 10%	Zones	IEC 60079-1:2003 Edition 5.0	
	*	4		

Connections



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