



| OVERVIEW |

The FGS Gas Sensor is one of the most cost effective and versatile units available on the market. With a Voltage Output, and Volt Free Contact the FGS can connect directly into most third party controllers or can easily connect to the New LCD based range of panels using the BACnet output.

With most modern buildings the plant room safety systems are BMS integrated, and the FGS has been designed with this in mind. It can be treated like any other field sensor, the latching facility allows direct integration with the primary safety circuit, then simply pulse the Digital Input to reset once the alarm has cleared. This negates the requirement for a controller, cutting down cost of the equipment and installation.

| KEY FEATURES |

- 24V AC/DC Power Supply
- Pre-calibrated
- Traffic light LCD readout
- Volt Free Contact output
- BACnet Interface (16 Address)
- Latching function with Reset input
- Analogue output
- Touch button setup and calibration
- Calibration and 'End of Life' Reminder
- Oxygen Sensor monitors for Enrichment and Depletion as standard
- Mounts onto any standard Single Gang Junction Box or Conduit Box
- **UK MANUFACTURED**

Dimensions

Height	125 mm
Width	86 mm
Depth	36 mm

Technical Specification

Power Supply	24V AC/DC \pm 10%	
Power Consumption @ 24V	Catalytic (CAT)	70 mA
	Electrochemical (EC)	40 mA
	Infra-red (IR)	70 mA
	Fluorescent (FL)	40 mA
Analogue Output	0/2-10V Full Scale Linear	
VFC Output Rating	SPDT - 1A @ 24V Max	
Operating Conditions	Temp	0-40°C
	Humidity	0-95% (NC)
Response Time (T90)	< 1 Minute	
Sampling Method	Diffusion	
Warm-up Time	2 minutes	
IP Rating	IP40	
Housing Material	Flame Retardant ABS	
Approval	CE	

Installer Selectable Options

- LCD backlight Enable/Disable (White backlight)
- Failsafe option:
 - De-energise/Energise Relay
 - 0-10V or 2-10V
- Display Gas Concentration or Gas Formula
- Latching/Non-latching
- Sounder Enable/Disable
- Add 1 Minute time delay on Relay and Sounder

Part Numbers & Options/Accessories

Part No	Description	Range (ppm)	Life (years)	Type
FGS-NG	Methane (CH4)	0-100% LEL	5	CAT
FGS-LPG	LPG	0-100% LEL	5	CAT
FGS-H2	Hydrogen	0-100% LEL	5	CAT
FGS-NGIR	Methane	0-100% LEL	10	IR
FGS-CO2IR	Carbon Dioxide	0-5% VOL	10	IR
FGS-CO	Carbon Monoxide	0-300ppm	5	FC
FGS-O2	Oxygen	0-25% VOL	5	FL
FGS-NO2	Nitrogen Dioxide	10ppm	3	EC
FGS-NO	Nitric Oxide	100ppm	2	EC
FGS-H2	Hydrogen	2,000ppm	2	EC
FGS-CL2	Chlorine	5ppm	2	EC
FGS-O3	Ozone	5ppm	2	EC
FGS-SO2	Sulfur Dioxide	20ppm	2	EC