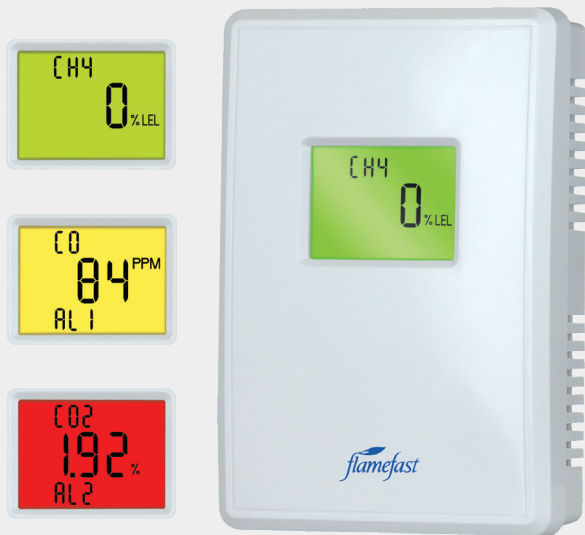


FLAMEFAST GAS SENSOR (FGS) BACNET, 0-10V, VFC (24V AC/DC)



| OVERVIEW |

The Flamefast Gas Sensor is one of the most versatile gas sensors available on the market. With an Analogue and Relay output, as well as a BACnet MS/TP interface, FGS can connect directly into most third-party controllers or can easily connect to any of the Flamefast range of gas safety systems.

In a large proportion of 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, or reset over the BACnet network once the alarm has cleared. This negates the requirement for a controller, cutting down cost of the equipment and installation.

The broadband Pellistor and Infra-red Hydro-carbon sensors can be calibrated to suit most combustible gases with the option to factory calibrate and rename the sensor for the specific gas. Flamefast can also offer a full range of toxic gas sensors, including H2S, HCN and many more (please contact for details).

| KEY FEATURES |

- 24 AC/DC Power Supply
- Pre-calibrated
- Traffic light LCD readout
- Volt free contact output
- BACnet MS/TP over RS485
- Latching function with Reset input
- Analogue output
- Simple configuration and calibration
- Calibration and 'End of Life' reminders
- Oxygen Sensors monitor Enrichment and Depletion as standard
- Mounts onto any standard single gang junction box or conduit box
- **UK MANUFACTURED**

Dimensions

Height	125mm
Width	86mm
Depth	36mm

Technical Specification

Power Supply	24V AC/DC \pm 10%
Power Consumption	100mA
BACnet MS/TP	9k6, 19k2, 38k4 or 76k8 RS485 (1/10th Load) Max 127 Addresses
Analogue Output	0/2-10V Full scale linear
VFC Output Rating	SPDT - 1A @ 24V Max
Warm-up Time	60 Seconds (24 Hours for full stability)
Response Time (T90)	< 60 Seconds (Adjustable)
Operating Conditions	Temp 5-40°C Humidity 0-95% (NC)
Sampling Method	Diffusion
IP Rating	IP40
Housing Material	Flame Retardant PC/ABS
Colour	Pure White (RAL9010)
Approval	UKCA, CE

Installer Selectable Options

LCD backlight	Enable/Disable
Failsafe option	Energise/De-energise Relay 0-10V or 2-10V
Alarm Latching	Enable/Disable
Audible Alarm	Enable/Disable
Auto Zero Calibration	Enable/Disable
Alarm1, Alarm 2 & Relay Set-points	
Analogue Output Range	
Display Gas Concentration or Formula	

Part Numbers & Options/Accessories

Part No	Gas	Range	Typ. Life (years)
FGS-NG	Natural Gas (Methane)	100% LEL	5
FGS-LPG	Propane	100% LEL	5
FGS-H2	Hydrogen (LEL)	100% LEL	5
FGS-HC	Hydro-carbon (Pellistor)	100% LEL	5
FGS-IRHC	Hydro-carbon (Infra-red)	100% LEL	5
FGS-SF6	Sulfur Hexafluoride	1,000ppm	5
FGS-CO2	Carbon Dioxide	5%	5
FGS-CO	Carbon Monoxide (Plant/Carpark)	200ppm	5
FGS-NO2	Nitrogen Dioxide	5ppm	3
FGS-NH3	Ammonia	100ppm	3
FGS-CL2	Chlorine	5ppm	3
FGS-H2e	Hydrogen (Electrochemical)	2000ppm	3
FGS-SO2	Sulphur Dioxide	5ppm	3
FGS-O2	Oxygen	25%	5

OTHER GASES AVAILABLE ON REQUEST