



## | OVERVIEW |

The Flamefast Duct Mounted 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 to most third party controllers or can easily connect to the New Flamefast 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
- 200mm Duct Probe
- **UK MANUFACTURED**

# FGSD FLAMEFAST GAS SENSOR (DUCT)

## Dimensions

Height	152mm
Width	110mm
Depth	50mm
Probe Length	200mm

## Technical Specification

Power Supply	24V AC/DC $\pm$ 10%	
Power Consumption @ 24V	Catalytic (CAT)	70mA
	Electrochemical (EC)	40mA
	Infra-red (IR)	70mA
	Fluorescent (FL)	40mA
Analogue Output	0/2-10V Full Scale Linear	
COMMS Output	BACnet MS / TO	
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	Gas	Range	Life	Type
FGSD-NG	Methane	100% LEL	5	CAT
FGSD-H2	Hydrogen	100% LEL	5	CAT
FGSD-LPG	Propane	100% LEL	5	CAT
FGSD-C2H2	Acetylene	100% LEL	5	CAT
FGSD-CO	Carbon Monoxide	300ppm	5	EC
FGSD-NO2	Nitrogen Dioxide	10.0ppm	3	EC
FGSD-O2	Oxygen	25.0%	5	FL
FGSD-CH4IR	Methane	100%LEL	10	IR
FGSD-CO2	Carbon Dioxide	5.00%	10	IR
FGSD-C3H8	Propane	100%LEL	10	IR
FGSD-C2H4	Ethylene	100%LEL	10	IR
FGSD-SF6	Sulphur Hexafluoride	2000ppm	10	IR
FGSD-CL2	Chlorine	5.00ppm	2	EC
FGSD-H2e	Hydrogen	2000ppm	2	EC
FGSD-NO	Nitric Oxide	100ppm	2	EC
FGSD-SO2	Sulphur Dioxide	20.0ppm	2	EC
FGSD-NH3	Ammonia	100ppm	2	EC