



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

## Dimensions

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

## Technical Specification

Power Supply	24V AC/DC ± 10%
Power Consumption	100mA
BACnet	MS/TP over RS485 Baud: 9k6, 19k2, 38k4 or 76k8 127 Address (1/10 <sup>th</sup> Load) <i>Full specification available on request</i>
Analogue Output	0/2-10V Full scale linear
VFC Output	SPDT - 1A @ 24V Max
Audible	60dB @ 30cm
Operating Conditions	Temp 5-40°C Humidity 0-95% (NC)
Sampling Method	Diffusion
Warm-up Time	60 Seconds (24 Hours for full stability)
Response Time (T90)	< 60 Seconds (Adjustable)
IP Rating	IP66 (external to duct)
Housing Material	PC/ABS
Colour	Black/Clear
Approval	CE, UKCA

## | OVERVIEW |

The Flamefast Duct Mounted Gas Sensor provides 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, the DFGS can connect directly into most third-party controllers, all housed in a robust duct enclosure for monitoring supply or return air systems.

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).

## 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)
DFGS-NG	Natural Gas (Methane)	100% LEL	5
DFGS-LPG	Propane	100% LEL	5
DFGS-H2	Hydrogen (LEL)	100% LEL	5
DFGS-HC	Hydro-carbon (Pellistor)	100% LEL	5
DFGS-IRHC	Hydro-carbon (Infra-red)	100% LEL	5
DFGS-SF6	Sulfur Hexafluoride	1,000ppm	5
DFGS-CO2	Carbon Dioxide	5%	5
DFGS-CO	Carbon Monoxide (Plant/Carpark)	200ppm	5
DFGS-NO2	Nitrogen Dioxide	5ppm	3
DFGS-NH3	Ammonia	100ppm	3
DFGS-CL2	Chlorine	5ppm	3
DFGS-H2e	Hydrogen (Electrochemical)	1000ppm	3
DFGS-SO2	Sulphur Dioxide	5ppm	3
DFGS-O2	Oxygen	25%	5

**OTHER GASES AVAILABLE ON REQUEST**

## | 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
- 200mm Duct Probe
- **UK MANUFACTURED**