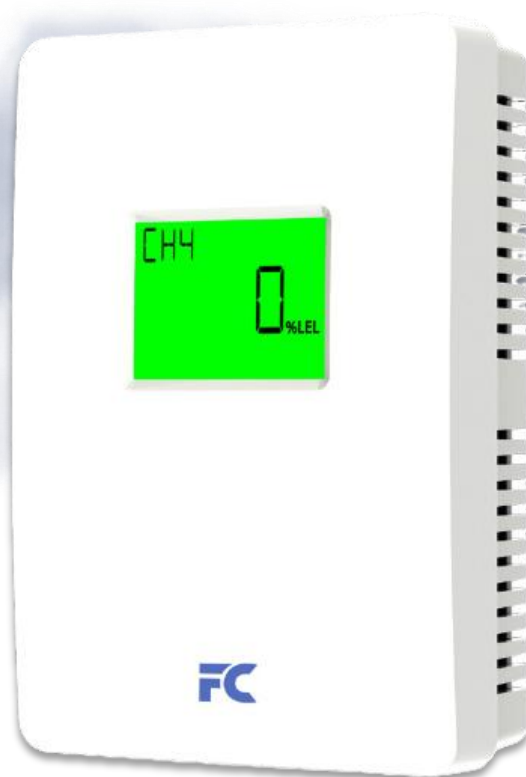




**Diamond
Controls®**

Leak Detection & Trace Heating Systems

Datasheet



FlameFast Gas Sensor

BACNET, MODBUS, 0-10V, VFC (24V
AC/DC)

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 selectable BACnet or Modbus 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 network once the alarm has cleared.

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Procedure:	OPS08	Document ref:	FFGSD	Publish date:	17/07/26	Approved by:	Lee Blackett	Review date:	As Required
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The unit can also be fully configured by the Flamefast App using the USB interface, including the address, relay properties, alarm set points and LCD behaviour.

Key Features

- 24 AC/DC Power Supply
- Pre-calibrated
- Traffic light LCD readout
- Volt free contact output
- BACnet and Modbus
- Latching function with Reset Input
- Analogue output
- Simple configuration and calibration
- Calibration and 'End of Life' reminders
- Mounts onto any standard single gang junction box or conduit box
- UK manufactured

Technical Specification

Power Supply	24V AC/DC $\pm 10\%$
Power Consumption	100mA
Comms Output	BACnet MS/TP and Modbus RTU Baud: 9600, Addresses: 32 Customisable through App with USB
Analogue Output	0/2-10V Full scale linear
VFC Output	SPDT - 1A @ 24V Max
Audible	60dB @ 30cm
Operating Conditions	Temp 5 ~ 50°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	IP40
Housing Material	PC/ABS
Colour	Pure White (RAL9010)
Approval	CE, UKCA



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Part Number & Common Accessories

Product Number	Gas
FGS-NG	Natural Gas
FGS-LPG	Propane
FGS-H2	Hydrogen (LEL)
FGS-SF6	Sulfur Hexafluoride
FGS-CO2	Carbon Dioxide
FGS-CO	Carbon Monoxide
FGS-NO2	Nitrogen Dioxide
FGS-NH3	Ammonia
FGS-CL2	Chlorine
FGS-H2E	Hydrogen (Electrochemical)
FGS-SO2	Sulphur Dioxide
FGS-O2	Oxygen

Important: All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application.