



GAS 820 Fixed Gas Detectors for Oxygen, toxic and flammable gases

The dangers of toxic, flammable gas and oxygen deficiency vary with each application and require different solutions. The GAS 820 family of fixed gas detector transmitters have been designed to meet the varied requirements of all industries. The GAS 820 is available in flameproof or safe area versions, using electrochemical, pellistor or infra-red sensor technology. With mV, 4-20mA or Addressable outputs the GAS 820 is the most flexible fixed gas detector to date.

There is a complete range of accessories for the GAS 820 including, Duct mount kits, remote calibration kits, collector cones, ceiling mount brackets, aspirated sample adaptors.

Key Features

- **GAS 820/1: EXD Flammable Gas mV**
- **GAS 820/2: EXD Flammable Gas mA**
- **GAS 820/3: Flammable Gas – Safe Area**
- **GAS 820/4: EXD Flammable Gas – High Temperature**
- **GAS 820/5: Toxic and Oxygen – Safe Area**
- **GAS 820/6: EXD Toxic and Oxygen**
- **GAS 820/8: EXD Addressable detector**
- **GAS 820/9: Addressable detector – Safe Area**

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Technical Data

	GAS 820/1	GAS 820/2	GAS 820/3	GAS 820/4	GAS 820/5	GAS 820/6	GAS 820/8	GAS 820/9
	Flam mV	Flam mA	Flam Safe	Flam HT	Tox Safe	Tox Hazardous	Address Hazard	Adress safe
Junction Box Material	Cast Aluminium	Cast Aluminium	Poly Carbonate	Cast Aluminium	Poly Carbonate	Cast Aluminium	Cast Aluminium	Poly Carbonate
Dimensions	140mm x 125mm x 135mm	140mm x 125mm x 135mm	112mm x 120mm x 56mm	140mm x 125mm x 135mm	112mm x 120mm x 56mm	140mm x 125mm x 135mm	140mm x 125mm x 135mm	112mm x 120mm x 56mm
IP rating	66	66	65	66	65	66	66	65
Sensor Type	Pellistor	Pellistor	Pellistor	Pellistor	Electro-chemical	Electro-chemical	All	All
Operating temp	-30 – 50°C	-30 – 50°C	-30 – 50°C	-30 – 150°C	N/A	-30 – 50°C	-30 – 50°C	N/A
Electrical output	3 wire mV	3 wire mA	3 wire mV + mA	3 wire mV	2 wire mA	2 wire mA	4 wire Comms	4 wire Comms
Entries	2 x m20	2 x m20	1 x m20	2 x m20	1 x m20	2 x m20	2 x m20	2 x m20
Approvals Junction Box	EEx d II C	EEx d II C	N/A	EEx d II C	N/A	EEx d II C	EEx d II C	N/A
Approvals sensor	EEx d II C T6	EEx d II C T6	N/A	EEx d II C T6	N/A	EEx d II C T6	EEx d II C T6	N/A

Gas Data

Target Gas		Relative Density Air = 1	Range	Sensor type	GAS 820 type
Hydro Carbons		Various	0-100% LEL	Pellistor + IR	1,2,3,4,8,9
Petrol Vapour			0-100% LEL	Pellistor	1,2,3,8,9
Ammonia	NH3	0.59	0-10% LEL	Pellistor	1,2,3,8,9
Hydrogen/Acetylene	H2/C2H2	0.069/1.1	0-100% LEL	Pellistor	1,2,8,9
Ammonia	NH3	0.59	0-100ppm	Electrochemical	5,6,8,9
Carbon Monoxide	CO	0.967	0-250ppm	Electrochemical	5,6,8,9
Carbon Dioxide	CO2	1.65	0-2% v/v	IR	5,6,8,9
Chlorine	CL2	2.47	0-10ppm	Electrochemical	5,6,8,9
Ethylene Oxide	C2H4O	1.49	0-25ppm	Electrochemical	5,6,8,9
Hydrogen	H2	0.069	0-2000ppm	Electrochemical	5,6,8,9
Hydrogen Chloride	HCL	1.26	0-10ppm	Electrochemical	5,6,8,9
Hydrogen Cyanide	HCN	0.94	0-25ppm	Electrochemical	5,6,8,9
Hydrogen Sulphide	H2S	1.118	0-50ppm	Electrochemical	5,6,8,9
Nitric Oxide	NO	1.036	0-100ppm	Electrochemical	5,6,8,9
Nitrogen Dioxide	NO2	2.62	0-200ppm	Electrochemical	5,6,8,9
Oxygen	O2	1.105	0-25% v/v	Electrochemical	5,6,8,9
Ozone	O3	1.66	0-2ppm	Electrochemical	5,6,8,9
Sulphur Dioxide	SO2	2.26	0-10ppm	Electrochemical	5,6,8,9

Other gas ranges are available, please contact Gas Alarm Systems.

This document is not contractual and the equipment specification may be modified at any time without prior notice

