

SMART 3G-C3

SIL2 Gas Detector

Optional RS485 interface
4-digit back-lit display
Ongoing system self-diagnosis
Wide range of sensor options



Specification

	with catalytic sensor	with electrochemical sensor	with infrared sensor
Size	H106 x W137 x D62 mm (4.2 x 5.4 x 2.4ins)	H106 x W160 x D62 mm (4.2 x 5.4 x 6.3ins)	H106 x W137 x D62 mm (4.2 x 5.4 x 2.4ins)
Weight	0.76kg	1kg	
Enclosure material	Aluminium		
Ingress Protection	IP55 (certification pending)		
Connection	1 x M20		
Power	12-24 Vdc		
Electrical output	Analogue 4-20 mA output; 1 or 3 relay board (optional); serial RS485 output (optional)		
Operating temperature	-40 / +60°C	-30 / +50°C	-40 / +60°C
Humidity	0 / 90% RH	15 / 90% RH non condensing	0 / 90% RH
Functional safety	SIL2 hardware and SIL3 software		
Approvals	EMC, ATEX (certification pending)		

Gases

Gas	Sensor type	Gas	Sensor type
Ammonia (NH ₃)	Electrochemical sensor	LPG	Catalytic sensor / Infrared sensor
Butane (C ₄ H ₁₀)	Catalytic sensor / Infrared sensor	Methane (CH ₄)	Catalytic sensor / Infrared sensor
Carbon Monoxide (CO)	Catalytic sensor	Nitric Oxide (NO)	Electrochemical sensor
Ethylene (C ₂ H ₄)	Electrochemical sensor	Oxygen (O ₂)	Electrochemical sensor
Hydrogen (H ₂)	Electrochemical sensor	Petrol Vapours	Catalytic sensor
Hydrogen Sulphide (H ₂ S)	Electrochemical sensor	Propane (C ₃ H ₈)	Catalytic sensor / Infrared sensor

Refrigerants

Refrigerant	Sensor type	Refrigerant	Sensor type
R1234YF	Infrared sensor	R32	Infrared sensor
R1234ZE	Infrared sensor	R404A	Infrared sensor
R125	Infrared sensor	R454B	Infrared sensor
R134A	Infrared sensor	SF6	Infrared sensor