

# SMART 3G-D3

## SIL2 Gas Detector for Zone 2

Standard 4-20mA and 3 relay output

Optional RS485 interface for  
Modbus communication

4-digit display and 5 mode status LEDs

Non-intrusive one-man calibration



## Specification

	with catalytic sensor	with electrochemical sensor	with infrared sensor
Size	H106 x W160 x D81 mm (4.2 x 6.3 x 3.2ins)		
Weight	1.21kg		
Enclosure material	Aluminium		
Ingress Protection	IP55 (certification pending)		
Connection	1 x M20		
Power	12-24 Vdc		
Display	7-segment display		
Electrical output	Analogue 4-20 mA output; 3 relays; 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 <sub>3</sub> )	Electrochemical sensor	LPG	Infrared sensor
Butane (C <sub>4</sub> H <sub>10</sub> )	Infrared sensor	Methane (CH <sub>4</sub> )	Infrared sensor
Carbon Dioxide (CO <sub>2</sub> )	Infrared sensor	Nitric Oxide (NO)	Electrochemical sensor
Carbon Monoxide (CO)	Electrochemical sensor	Oxygen (O <sub>2</sub> )	Electrochemical sensor
Hydrogen (H <sub>2</sub> )	Electrochemical sensor	Propane (C <sub>3</sub> H <sub>8</sub> )	Infrared sensor
Hydrogen Sulphide (H <sub>2</sub> S)	Electrochemical sensor	RNH <sub>3</sub>	Electrochemical sensor

## Refrigerants

Refrigerant	Sensor type	Refrigerant	Sensor type
R32	Infrared sensor	R407A	Infrared sensor
R134A	Infrared sensor	R407F	Infrared sensor
SF6	Infrared sensor	R449A	Infrared sensor
R125	Infrared sensor	R507	Infrared sensor
R1234YF	Infrared sensor	R410A	Infrared sensor
R1234ZE	Infrared sensor	R417A	Infrared sensor
R404A	Infrared sensor	R448	Infrared sensor