

Smart 3G-Grl

Group I Gas Detector for Mines

SIL2 certified

Optional display enabling non-
intrusive one-man calibration

ATEX Group I certified for mines and tunnels

Optional 3 relay output and RS485 interface



Specification

	SMART3GC-Gr1	SMART3GD-Gr1
Size	H145 x W187 x D128 mm (5.7 x 7.4 x 5ins)	
Weight	2.8kg	3.3kg
Enclosure material	Stainless steel	
Ingress Protection	IP65	
Connection	3 x 3/4" NPT	
Power	12-24 Vdc	
Display		7-segment display, 5 status LED and 4 intelligent LED, multi-color LED light ring
Electrical output	Analogue 4-20 mA output; 3 relay board (optional); serial RS485 output (optional)	Analogue 4-20 mA output; 3 relay board; serial RS485 output (optional)
Operating temperature	With catalytic and infrared sensor: -20 / +60°C With electrochemical sensor: -20 / +50°C	
Humidity	With catalytic and infrared sensor: 0 / 95% RH With electrochemical sensor: 15 / 90% RH	
Functional safety	SIL2 hardware and SIL3 software	
Approvals	EMC, ATEX	

Gases

Gas	Sensor type
Carbon Monoxide (CO)	Electrochemical cell
Methane (CH ₄)	Catalytic sensor / infrared sensor
Oxygen (O ₂)	Electrochemical cell



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