

SMART3G-D2 Gas detectors with display for zone 1 category 2 areas



Designed to meet with tough industrial requirements, the **SMART3G-D2** allow monitoring toxic and flammable contents in harsh environments and classified areas. They offer a 4-digit back-lit display and 5 mode status LED for the gas concentration reading.

Ideal in harsh environments, the **SMART3G-D2** feature non intrusive calibration for an accurate and easy adjustment via Hall-effect switches, without opening the instrument and declassifying the area.

They can reliably monitor flammable compounds (%LEL), toxic compounds in ppm, Oxygen and CO2 contents in % by Vol.

SMART3G-D2 features:

- Non-intrusive one man calibration via Hall effect switches
- 4-digit display and 5 mode status LEDs
- Standard 4-20 mA 3 wire output
- Standard 1 relay output
- Optional 3 relay output card
- Optional RS485 interface for Modbus communication.
- Zero tracking to maintain the zero point steady from possible drifts
- Ongoing system self diagnosis
- ATEX II2G Ex db IIC T5 Gb (standard marking) (II2 GD with optional adapter)
- ATEX II2G Ex db [ib] IIC T6 Gb for detectors with intrinsically safe protection
- SIL 2HW tested, SIL3 SW pending
- Wide range of sensors and detectable gases
- Wide range of accessories for installation and maintenance
- Easy sensor replacement



For optional accessories please refer to page 29.

SMART3G-D2 - FLAMMABLE GAS (Catalytic sensor)

CODE	DESCRIPTION		
S2157ME	METHANE detector, 4-20 mA, 0-100%LEL		
S2157GP	LPG detector, 4-20 mA, 0-100%LEL		
S2157BU	BUTANE detector, 4-20 mA, 0-100%LEL		
S2157PR	PROPANE detector, 4-20 mA, 0-100%LEL		
S2157VB	PETROL VAPOURS detector, 4-20 mA, 0-100% LEL		
S2157AA	ACETIC ACID detector, 4-20 mA, 0-100% LEL		
S2157AT	ACETONE detector, 4-20 mA, 0-100% LEL		
S2179AC	ACETYLENE detector, 4-20 mA, 0-100% LEL		
S2157AM	AMMONIA detector, 4-20 mA, 0-100% LEL		
S2157BZ	BENZENE detector, 4-20 mA, 0-100% LEL		
S2157CE	CYCLOHEXANE detector, 4-20 mA, 0-100% LEL		
S2157CP	CYCLOPENTANE detector, 4-20 mA, 0-100% LEL		
S2157EN	ETHANE detector, 4-20 mA, 0-100% LEL		
S2157AE	ETHYL ACETATE detector, 4-20 mA, 0-100% LEL		
S2157ET	ETHYL ALCOHOL detector, 4-20 mA, 0-100% LEL		
S2157EE	ETHYL ETHER detector, 4-20 mA, 0-100% LEL		
S2157EL	ETHYLENE detector, 4-20 mA, 0-100% LEL		
S2157OE	ETHYLENE OXIDE (ETO) detector, 4-20 mA, 0-100% LEL		
S2157EP	HEPTANE detector, 4-20 mA, 0-100% LEL		
S2157ES	HEXANE detector, 4-20 mA, 0-100% LEL		
S2157H2	HYDROGEN detector, 4-20 mA, 0-100% LEL		
S2157IB	ISO BUTANE detector, 4-20 mA, 0-100% LEL		
S2157IT	ISO BUTYL ALCOHOL detector, 4-20 mA, 0-100% LEL		
S2157IN	ISO PENTANE detector, 4-20 mA, 0-100% LEL		
S2157IP	ISO PROPYL ALCOHOL detector, 4-20 mA, 0-100% LEL		

S2508P8	JP8 detector, 4-20 mA, 0-100% LEL detector, 4-20 mA, 0-100% LEL		
S2157MT	METHYL ALCOHOL detector, 4-20 mA, 0-100% LEL		
S2157MK	METHYL ETHYL KETONE (MEK) detector, 4-20 mA, 0-100% LEL		
S2157NN	NONANE detector, 4-20 mA, 0-100% LEL		
S2157PE	PENTANE detector, 4-20 mA, 0-100% LEL		
S2157PP	PROPYLENE detector, 4-20 mA, 0-100% LEL		
S2157PN	PROPYL ALCOHOL detector, 4-20 mA, 0-100% LEL		
S2157ST	STYRENE detector, 4-20 mA, 0-100% LEL		
S2157TM	TRI-METHYLBENZENE detector, 4-20 mA, 0-100% LEL		
S2157TO	TOLUENE detector, 4-20 mA, 0-100% LEL		
S2157AV	VINYL ACETATE detector, 4-20 mA, 0-100% LEL		
S2157XI	XYLENE detector, 4-20 mA, 0-100% LEL		

Other gases on request

SMART3G-D2 - FLAMMABLE GAS (Infrared sensor)

CODE	DESCRIPTION		
S2626ME	METHANE detector, 4-20 mA, 0-100%LEL		
S2602BU	BUTANE detector, 4-20 mA, 0-100%LEL		
S2602PR	PROPANE detector, 4-20 mA, 0-100%LEL		
S2602AT	ACETONE detector, 4-20 mA, 0-100% LEL		
S2602BN	BUTADIENE detector, 4-20 mA, 0-100% LEL		
S2602CE	CYCLO HEXANE detector, 4-20 mA, 0-100% LEL		
S2602DT	DIMETHYL ETHER detector, 4-20 mA, 0-100% LEL		
S2602EN	ETHANE detector, 4-20 mA, 0-100% LEL		
S2602AE	ETHYL ACETATE detector, 4-20 mA, 0-100% LEL		
S2602ET	ETHYL ALCOHOL detector, 4-20 mA, 0-100% LEL		
S2602EP	HEPTANE detector, 4-20 mA, 0-100% LEL		
S2602ES	HEXANE detector, 4-20 mA, 0-100% LEL		
S2602IB	ISO BUTANE detector, 4-20 mA, 0-100% LEL		
S2602IL	ISOBUTYLENE detector, 4-20 mA, 0-100% LEL		
S2602IP	ISO PROPYL ALCOHOL detector, 4-20 mA, 0-100% LEL		
S2602PE	PENTANE detector, 4-20 mA, 0-100% LEL		
S2602PP	PROPYLENE detector, 4-20 mA, 0-100% LEL		
S2602DE	R152a DIFLUOROETHANE detector, 4-20 mA, 0-100% LEL		
S3427R32	R32 DIFLUOROMETHANE detector, 4-20 mA, 0-100% LEL		
S3431R1234yf	R1234yf detector, 4-20 mA, 0-100% LEL		
S3436R1234ze	R1234ze detector, 4-20 mA, 0-100% LEL		

Other gases on request

SMART3G-D2 - TOXIC GASES (Electrochemical cell)

CODE	DESCRIPTION		
S2643O2	OXYGEN (O2) detector, 0-25% Vol., 4-20 mA		
S2163CO	CARBON MONOXIDE (CO) detector, 0-500 ppm, 4-20 mA		
S2992CO	CARBON MONOXIDE (CO) detector, 0-1000 ppm, 4-20 mA		
S3227AM	AMMONIA (NH3) detector, 0-100 ppm, 4-20 mA		
S2165AM	AMMONIA (NH3) detector, 0-200 ppm, 4-20 mA		
S2167AM	AMMONIA (NH3) detector, 0-1000 ppm, 4-20 mA		
S2169HS	HYDROGEN SULPHIDE (H2S) detector, 0-50 ppm, 4-20 mA		
S2873HS	HYDROGEN SULPHIDE (H2S) detector, 0-100 ppm, 4-20 mA		
S2177NO	NITRIC OXIDE (NO), 0-100 ppm, 4-20 mA		
S3313H2	HYDROGEN (H2) detector, 0-2000 ppm, 4-20mA		
S3395H2	HYDROGEN (H2) detector, 0-3000 ppm, 4-20mA		
	Detectors with Intrinsically Safe protection		
S3005SD	SULPHUR DIOXIDE (SO2) detector, 0-20 ppm, 4-20 mA		
S3009ND	NITROGEN DIOXIDE (NO2) detector, 0-20 ppm, 4-20 mA		
S3013CL	CHLORINE (CL2) detector, 0-5 ppm, 4-20 mA		
S3015CL	CHLORINE (CL2) detector, 0-20 ppm, 4-20 mA		

Other gases on request

SMART3G-D2 – CO2 (Infrared sensor)

CODE	DESCRIPTION		
S2634CO2	CARBON DIOXIDE (CO2) detector, 0-2% Vol. , 4-20 mA		
S2635CO2	CARBON DIOXIDE (CO2) detector, 0-5% Vol. , 4-20 mA		
S2449CO2	CARBON DIOXIDE (CO2) detector, 0-30% Vol. , 4-20 mA		

SMART3G-D2 – SF6 and REFRIGERANT GASES (Infrared sensor)

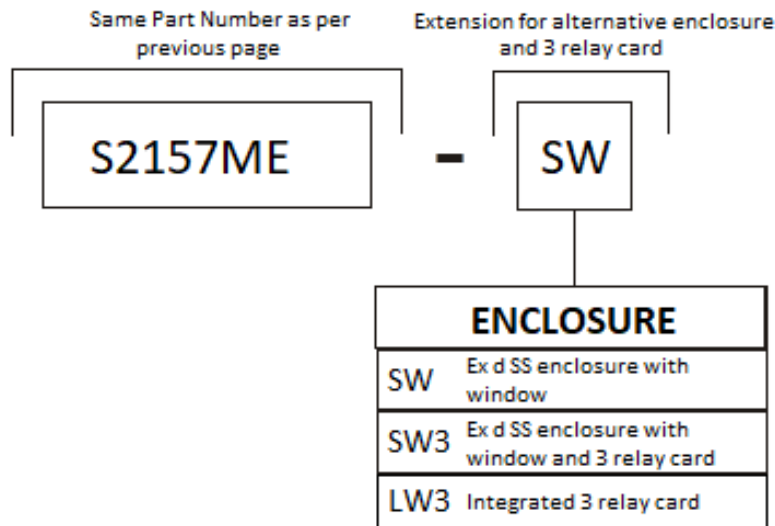
CODE	DESCRIPTION		
S9345R32	R32 detector, 0-2000 ppm, 4-20mA		
S3163R134A	R134a detector, 0-2000 ppm, 4-20mA		
S3601SF6	SF6 detector, 0-2000 ppm, 4-20mA		
S3661R125	R125 detector, 0-2000 ppm, 4-20mA		
S3662R1234YF	R1234yf detector, 0-2000 ppm, 4-20mA		
S3949R1234ZE	R1234ze detector, 0-2000 ppm, 4-20mA		
S3663R404A	R404A detector, 0-2000 ppm, 4-20mA		
S3917R407A	R407A detector, 0-2000 ppm, 4-20mA		
S3664R407F	R407F detector, 0-2000 ppm, 4-20mA		
S3924R449A	R449 detector, 0-2000 ppm, 4-20mA		
S3665R507	R507 detector, 0-2000 ppm, 4-20mA		
S3673R410A	R410 detector, 0-2000 ppm, 4-20mA		
S3953R417A	R417A detector, 0-2000 ppm, 4-20mA		
S3957R448	R448 detector, 0-2000 ppm, 4-20mA		

Other gases on request

SMART3G-D2 – REFRIGERANT GASES (MOS sensor)

CODE	DESCRIPTION		
S3439RXXXX	REFRIGERANT GASES detector, 0-2000 ppm, 4-20 mA		

“XXXX” Codification will depend on the gas chosen. Please insert the name of the gas instead of “XXXX”.



Additional costs to be added to the list price to evaluate the final cost of the detector with integrated 3 relay board and/or with Stainless Steel enclosure:

CODE	DESCRIPTION		
SW	Ex d Stainless Steel enclosure with window		
SW3	Ex d Stainless Steel enclosure with window and integrated 3-relay board		
LW3	Integrated 3 relay board		