



EXPLORER GAS POINT

Stand Alone Gas Detector

- Ex Aluminium Enclosure, suitable for 1/4" gas NPT cable gland
- LCD coloured display for local readings
- Interaction with magnet in ATEX Zone
- Settable on application
- Easy to install



GasPoint detector is used to detect flammable gasses, toxic gasses (ppm), volatile organic compounds and oxygen monitoring.

Enclosure used are Realized for industrial and suitable for installation in harsh conditions.

Gas Point is designed to be modular, it's possible to choose the most suitable configuration on the application.

The internal service menù is intuitively accessible, It allows to set the alarm and pre-alarm threshold and perform service operations.

In case of detecting Explosivity (%LEL) or Volatile Organic Compounds (ppm), a gas library is available to select the reference gas.

in models with windowed housing, alarms are signaled locally by the LCD display (A1, A2, FAULT) the LED STATUS.

GasPoint sensors are compatible with Explorer control units, can be integrated with our custom systems and with any controller that accepts 4-20mA or RS-485 signals.

sensitive element is easily replaceable and does not involve any intrusive operation.



GASPOINT BASIC:



Sensor with blind enclosure, 4-20mA or RS-485 output signal; internal service display, ATEX approved.

GASPOINT SAFE ZONE:



Sensor with windowed enclosure and LCD display, real-time measure, to be installed in safe zone Area.

Settings can be done by magnet keys, through glass.

GASPOINT PLUS:



Sensor with windowed enclosure and LCD display, real-time measure, VOC and IR sensor with optional relays board.





Settings can be done by magnet keys, through glass.

It can be installed in Atex Zone

Technical specifications

	GASPOINT BASIC	GASPOINT SAFE ZONE	GASPOINT PLUS
Mechanical			
Enclosure	Die-cast aluminium	Die-cast aluminium	Die-cast aluminium
Connection	Cablegland 3/4"NPT	Cablegland 3/4"NPT	Cablegland 3/4 "NPT
Dimension (mm)	88(H) x 120(P) x 165(L)	88(H) x 120(P) x 165(L)	127(H) x 140(P) x 170(L)
Weight	620 gr.	620 gr.	1500 gr.
Electrical			
Power Supply	12 - 24 Vcc	12 - 24 Vcc	12 - 24 Vcc
Absorption	Max 3W	Max 3W	Max 3W
Wiring	4-20mA, 3 conductors	4-20mA, 3 conductors	4-20mA, 3 conductors
User Interface			
Display	Internal LCD Display	Visible LCD Display	Visible LCD Display
Keys	Nr. 3 magnetic contacts for service operations (internal)	Nr. 3 magnetic contacts for service operations, operable through glass	Nr. 3 magnetic contacts for service operations, operable through glass
Operating Conditions			
Temperature	-20°C ÷ + 55°C	-20°C ÷ 55°C	-20°C ÷ + 55°C
Humidity	0% - 95% relative-Humidity (non-condensing)	0% - 95% relative-Humidity (non-condensing)	0% - 95% relative-Humidity (non-condensing)
Protection Degree	IP65 with cablegland	IP65 with cablegland	IP65 with cablegland
Pressure	Atm +/- 10%	Atm +/- 10%	Atm +/- 10%
Approvazioni			
Dangerous Area	ATEX IIG Ex D IIC T6 Gb	-	ATEX IIG Ex D IIC T6 Gb

GasPoint optional materials

Relays board	Calibration adapter	Flow Cell	Ex Cablegland IP65
1004535	1003569	1003541	1000480
			

Flammable Gasses

Technology	Catalytic sensor
Technical Specifications	Sensor type VQ-21 "Poison Resistant", Designed to be used in environment where silicone substances could be present
Nominal Range	0 – 100 % LEL
Response time	T ₉₀ < 25 sec.
Resolution	0,1%LEL
Linearity	100% on scale of 0-100 % LEL Methane
Maximum Overload	5% Vol. CH ₄
Expected operating life	> 5 years
Sensor housing	AISI316L, NPT ¾" Male, with sintered filter
Operating conditions	
Temperature	-20°C / + 55°C
Humidity	0% - 95% Relative Humidity (non-condensing)
Pressure	Atm +/- 10 %
Minimum Oxygen Required	12 % vol. Oxygen
Certifications	
Hazardous Area	ATEX II G Ex D IIC T6 Gb
Product code	
Sensor with sensor housing, ATEX	1004550 – to be Combined with GasPoint transmitter
Sensor Spare Part	1001515

Gas	Formula	Gas	Formula
Acetic Acid	C ₄ H ₈ O ₂	Ethylene	C ₂ H ₄
Acetylene	C ₂ H ₂	Ethyl mercaptan	C ₂ H ₆ S
Acetone	C ₃ H ₆ O	Hydrogen	H ₂
Acetic Acid	C ₂ H ₄ O ₂	Iso-Butane	C ₄ H ₁₀ O
Isopropyl alcohol	C ₃ H ₈ O	Isobutylene	C ₄ H ₈
Ammonia	NH ₃	Methane	CH ₄
Benzene	C ₆ H ₆	Methanol	CH ₄ O
n-Butane	C ₄ H ₁₀	Methylamine	CH ₅ N
Chlorobenzene	C ₆ H ₅ Cl	Methyl ethyl ketone	C ₄ H ₈ O
Helium	He	Methylmercaptan	CH ₃ SH
n-Heptane	C ₇ H ₁₆	Ottane	C ₈ H ₁₈
n-Hexane	C ₆ H ₁₄	n-Pentane	C ₅ H ₁₂
n-Octane	C ₂ H ₆	Propane	C ₃ H ₈
Ethanol	C ₂ H ₆ O	Toluene	C ₇ H ₈
Ethylbenzene	C ₈ H ₁₀	Xylene	C ₈ H ₁₀

Sensors with infrared Technology

Methane detection – CH₄

Technical Specifications	Sensore Non Dispersive Infrared (NDIR)	
Nominal Range	Mod. SRH-5	Mod. SRH-100
	0 – 5 % vol.	0 – 100 % vol.
Response time	T ₉₀ < 25 sec. @20°C	
Accuracy	0-1%: ±0,06% vol.	
	1-2,5%: ±6% reading	
	2,5%-full range: ±6 % reading	
Resolution	0,01 %vol.	
Long Time Output Drift	±0,01%vol/month	
Linearity	100% on 0-100 % full scale LEL Methane	
Expected operating life	> 10 years	
Sensor housing	AISI316L, NPT ¼" Male, with sintered filter	
Operating conditions		
Temperature	-40°C / + 70°C	
Humidity	0% - 95% Relative Humidity (non-condensing)	
Warm up time	< 10 sec.	
Product code		
Sensor with sensor housing to be installed with GasPoint series	0 – 5 % vol.	0 – 100 % vol.
	1004547	1004546
Sensor spare part	3000360	3000361

Carbon Dioxide detection – CO₂

Technical Specifications	Sensore Non Dispersive Infrared (NDIR)	
Nominal Range	Mod. SRH-5	Mod. SRH-05
	0 – 5 % vol.	0 – 5.000 ppm
Response time	T ₉₀ < 25 sec. @20°C	
Accuracy	0-1%: ≤ ±0,1%vol	≤ ±25ppm o 10% della lettura
	1%-full range: ≤ ± (0,05%+5% della lettura)	
Resolution	0,01%vol.	1 ppm
Long Time Output Drift	±0,01%vol/month	
Linearity	100% on a full scale 0-100 % LEL Methane	
Expected operating life	> 10 years	
Sensor housing	AISI316L, NPT ¼" Male, with sintered filter	
Operating conditions		
Temperature	-40°C / + 70°C	
Humidity	0% - 95% Relative Humidity (non-condensing)	
Warm up time	< 10 sec.	
Product code		
Sensor with sensor housing to be installed with GasPoint series	0 – 5 % vol.	0 – 5.000 ppm
	1004544	1004545
Sensor spare part	3000363	3000362

Sensors with Photoionization Technology - PID

Volatile Organic Compounds – VOC

Technical Specifications	PID sensor with 10,6eV lamp	
Nominal Range	PID2 PPM	PID2 PPB
	0 – 4.000 ppm	0 – 40 ppm
Response time	T ₉₀ < 4 sec.	T ₉₀ < 8 sec.
Resolution	1 ppm	1 ppb
Long Time Output Drift	±0,01%vol/month	
Lamp's Expected operating life	10.000 hours	
Warranty	12 months	
Sensor housing	AISI316L, NPT ¾" Male, With sinterized filter	
Operating conditions		
Temperature	-40°C / + 65°C	
Humidity	0% - 99% relative Humidity (non-condensing)	
Product code		
Sensor with sensor housing to be installed with GasPoint series	1004549	1004548
Spare part	3000350	3000351



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Sensors with electrochemical cells

Product code	Gas	Formula	Range
1004553	Carbon Monoxide	CO	0-2.000 ppm
1004554	Carbon Monoxide	CO	0-50 ppm
1004555	Carbon Monoxide	CO	0-1.000 ppm
1004556	Hydrogen Sulphide	H ₂ S	0-200 ppm
1004557	Hydrogen Sulphide	H ₂ S	0-50 ppm
1004558	Hydrogen Sulphide	H ₂ S	0-100 ppm
1004559	Hydrogen Sulphide	H ₂ S	0-500 ppm
1004560	Hydrogen Sulphide	H ₂ S	0-1.000 ppm
1004561	Hydrogen Sulphide	H ₂ S	0-2.000 ppm
1004562	Hydrogen Sulphide	H ₂ S	0-5.000 ppm
1004563	Hydrogen Sulphide	H ₂ S	0-10.000 ppm
1004564	Nitrogen Dioxide	NO ₂	0-20 ppm
1004565	Nitrogen Dioxide	NO ₂	0-5 ppm
1004566	Nitrogen Dioxide	NO ₂	0-100 ppm
1004567	Nitrogen Monoxide	NO	0-100 ppm
1004568	Chlorine	Cl ₂	0-50 ppm
1004569	Chlorine	Cl ₂	0-20 ppm
1004570	Acido cianidrico	HCN	0-50 ppm
1004571	Ammonia	NH ₃	0-100 ppm
1004572	"long life" Ammonia	NH ₃	0-100 ppm
1004573	Ammonia	NH ₃	0-1.000 ppm
1004574	"long life" Ammoniaca	NH ₃	0-200 ppm
1004590	Ammonia	NH ₃	0-500 ppm
1004575	Ethylene oxide	ETO	0-100 ppm
1004576	Ethylene oxide	ETO	0-20 ppm
1004577	Suplhur Dioxide	SO ₂	0-100 ppm
1004578	Suplhur Dioxide	SO ₂	0-5 ppm
1004579	tetrahydrothiophene	THT	0-50 mg/m ³
1004580	Hydrogen	H ₂	0-10.000 ppm
1004581	Hydrogen	H ₂	0-1.000 ppm
1004582	Phosphine	PH ₃	0-5 ppm
1004583	Phosphine	PH ₃	0-2.000 ppm
1004584	Chlorine Dioxide	ClO ₂	0-1 ppm
1004585	Chlorine Dioxide	ClO ₂	0-20 ppm
1004586	Hydrochloric Acid	HCl	0-50 ppm
1004587	Hydrochloric Acid	HCl	0-20 ppm
1004589	Hydrochloric Acid	HCl	0-100 ppm
1004588	Formaldehyde	CH ₂ O	0-10 ppm

Gas	Formula	Product Code		
CARBON MONOXIDE	CO	1004553	1004554	1004555
Nominal Range		0 ÷ 2.000 ppm	0 ÷ 50 ppm	0 ÷ 1.000 ppm
Maximum Overload		4.000 ppm	100 ppm	2.000 ppm
Expected operating life		2 years in air		
Long Time Output Drift		< 2% signal / month		
Resolution		0,1 ppm		
Response time		T ₉₀ < 30 sec.		
Approvals		ATEX II G Ex D IIC T6 Gb		
Cross-sensitivity data:				
Gas	concentration (ppm)	Output (equivalent ppm of CO)		
H ₂ S	15	<1		
SO ₂	10	<1		
NO	50	<5		
NO ₂	10	-1 – 0		
H ₂	100	<50		
C ₂ H ₄	100	<50		
Cl ₂	15	0 – 1		

Gas	Formula	Product code			
HYDROGEN SULPHIDE	H ₂ S	1004556	1004557	1004558	1004559
Nominal Range		0 ÷ 200 ppm	0 ÷ 50 ppm	0 ÷ 100 ppm	0 ÷ 500 ppm
Maximum Overload		200 ppm	100 ppm	200 ppm	1.000 ppm
Resolution		0,2 ppm	0,05	0,25 ppm	0,5 ppm
Response time		T ₉₀ < 30 sec.			
		1004560	1004561	1004562	1004563
Nominal Range		0÷1.000 ppm	0÷2.000 ppm	0÷5.000 ppm	0÷10000 ppm
Maximum Overload		2.000 ppm	4.000 ppm	10.000 ppm	20.000 ppm
Resolution		1 ppm	2 ppm	5 ppm	10 ppm
Response time		T ₉₀ < 50 sec.			T ₉₀ < 60 sec.
Expected operating life		2 years in air			
Long Time Output Drift		< 2% signal / month			
Approvals		ATEX II G Ex D IIC T6 Gb			
Cross-sensitivity data:					
Gas	Concentration (ppm)	Output (Equivalent ppm of H ₂ S)			
CO	100	<3			
SO ₂	10	<1			
NO	50	~ 1			
NO ₂	10	<1			
H ₂	10.000	<12			
C ₂ H ₄	100	0			

Gas	Formula	Product Code		
NITROGEN DIOXIDE	NO ₂	1004564	1004565	1004566
Nominal Range		0 ÷ 20 ppm	0 ÷ 5 ppm	0 ÷ 100 ppm
Maximum Overload		100 ppm	20 ppm	500 ppm
Expected operating life		2 years in air		
Long Time Output Drift		< 2% signal / month		
Resolution		0,1 ppm	0,02 ppm	0,2 ppm
Response time		T ₉₀ < 30 sec.	T ₉₀ < 90 sec.	T ₉₀ < 40 sec.
Approvals		ATEX II G Ex D IIC T6 Gb		
Cross-sensitivity data:				
Gas	Concentration (ppm)	Output (equivalent ppm of NO ₂)		
		1004564	1004565	1004566
CO	300	0	0,04	0
H ₂ S	15	5-6	0,8	5-6
SO ₂	5	<6	0,03	<6
NO	35	0	-3,42	0
Cl ₂	1	0	-0,42	0
H ₂	100	0	/	0
HCN	10	0	/	0
HCl	5	0	/	0
C ₂ H ₄	100	0	/	0
O ₃	5	/	0	/
C ₂ H ₅ OH	1.000	/	0	/

Gas	Formula	Product code		
NITROGEN MONOXIDE	NO	1004567		
Nominal Range		0 ÷ 100 ppm		
Maximum Overload		1.500 ppm		
Expected operating life		2 years in air		
Long Time Output Drift		< 2% signal / month		
Resolution		0,5 ppm		
Response time		T ₉₀ < 30 sec.		
Approvals		ATEX II G Ex D IIC T6 Gb		
Cross-sensitivity data:				
Gas	Concentration (ppm)	Output (equivalent ppm of NO)		
H ₂ S	15	7		
CO	300	~ 0		
NO ₂	5	~ 1,5		
SO ₂	5	<1		

Gas	Formula	Product code	
CHLORINE	Cl ₂	1004568	1004569
Nominal Range		0 ÷ 50 ppm	0 ÷ 20 ppm
Maximum Overload		100 ppm	50 ppm
Expected operating life		2 years in air	
Long Time Output Drift		< 2% signal / month	
Resolution		0,2 ppm	0,05 ppm
Response time		T ₉₀ < 45 sec.	
Approvals		ATEX II G Ex D IIC T6 Gb	
Cross-sensitivity data:			
Gas	Concentration (ppm)	Output (equivalent ppm of Cl ₂)	
H ₂ S	20	-10	
CO	100	0	
NO ₂	10	10	
SO ₂	20	0	
NO	35	-0,4	
H ₂	2.000	0	
NH ₃	100	0	

Gas	Formula	Product code	
HYDROGEN CYANIDE	HCN	1004570	
Nominal Range		0 ÷ 50 ppm	
Maximum Overload		100 ppm	
Expected operating life		2 years in air	
Long Time Output Drift		< 2% signal / month	
Resolution		0,2 ppm	
Response time		T ₉₀ < 120 sec.	
Approvals		ATEX II G Ex D IIC T6 Gb	
Cross-sensitivity data:			
Gas	Concentration (ppm)	Output (equivalent ppm of NO)	
CO	300	0	
NO ₂	35	~ 1	
SO ₂	5	<2	
NO	5	-3	
H ₂	100	0	
PH ₃	25	20	

Gas	Formula	Product code			
AMMONIA	NH ₃	1004571	1004572	1004573	1004574
Nominal Range		0 ÷ 100 ppm	0 ÷ 100 ppm	0 ÷ 1000 ppm	0 ÷ 200 ppm
Maximum Overload		200 ppm	100 ppm	2.000 ppm	200 ppm
Resolution		0,3 ppm	0,5 ppm	2 ppm	0,5 ppm
Response time		T ₉₀ < 45 sec.	T ₉₀ < 90 sec.	T ₉₀ < 45 sec.	T ₉₀ < 90 sec.
Expected operating life		2 years in air	5 years in air	2 years in air	5 years in air
Long Time Output Drift		< 2% signal / month			
Approvals		ATEX II G Ex D IIC T6 Gb			

Cross-sensitivity data:

Gas	Concentration (ppm)	Output (equivalent ppm of NH ₃)			
		1004571	1004572	1004573	1004574
H ₂ S	25	22	57,3	22	57,3
CO	100	0	4,5	0	4,5
H ₂	1.000	0	4,9	0	4,9
CO	5.000	-1	/	-1	/
Isobutene	100	0	/	0	/
Ethanol	1.000	0	/	0	/
SO ₂	20	/	-5	/	-5
NO	50	/	7,6	/	7,6
NO ₂	10	/	-7,6	/	-7,6
ETO	50	/	1,9	/	1,9
Cl ₂	10	/	11,5	/	11,5

Gas	Formula	Product code	
ETHYLENE OXIDE	ETO	1004575	1004576
Nominal Range		0 ÷ 100 ppm	0 ÷ 20 ppm
Maximum Overload		500 ppm	100 ppm
Expected operating life		2 years in air	
Long Time Output Drift		< 2% signal / month	
Resolution		0,2 ppm	0,1 ppm
Response time		T ₉₀ < 120 sec.	
Approvals		ATEX II G Ex D IIC T6 Gb	

Cross-sensitivity data:

Gas	Concentration (ppm)	Output (equivalent ppm of ETO)	
		1004575	1004576
CO	25	10	5
Isobutylene	50	35	30
C ₂ H ₄	50	45	25
C ₂ H ₂	50	55	25
Ethanol	100	35	50
Methyl alcohol	30	45	40
Formic Acid	100	10	20

Gas	Formula	Product code	
SULPHUR DIOXIDE	SO ₂	1004577	1004578
Nominal Range		0 ÷ 100 ppm	0 ÷ 5 ppm
Maximum Overload		500 ppm	20 ppm
Expected operating life		2 years in air	
Long Time Output Drift		< 2% signal / month	
Resolution		0,2 ppm	0,08 ppm
Response time		T ₉₀ < 70 sec.	
Approvals		ATEX II G Ex D IIC T6 Gb	

Cross-sensitivity data:		
Gas	Concentration (ppm)	Output (equivalent ppm of SO ₂)
CO	300	< 3
H ₂ S	15	0
NO	35	0
NO ₂	5	-5

Gas	Formula	Product code	
TETRAHYDROTIOPHEN	THT	1004579	
Nominal Range		0 ÷ 50 mg/m ³	
Maximum Overload		100 mh/m ³	
Expected operating life		24 years in air	
Long Time Output Drift		< 2% signal / month	
Resolution		0,2 ppm	
Response time		T ₉₀ < 60 sec.	
Approvals		ATEX II G Ex D IIC T6 Gb	

Cross-sensitivity data:		
Gas	Concentration (ppm)	Output (equivalent ppm of THT)
H ₂ S	25	0
CO	50	0
NO	35	17,8
SO ₂	5	0
NO ₂	10	0,1

Gas	Formula	Product code	
HYDROGEN	H ₂	1004580	1004581
Nominal Range		0 ÷ 10.000 ppm	0 ÷ 1.000 ppm
Maximum Overload		20.000 ppm	2.000 ppm
Expected operating life		2 years in air	
Long Time Output Drift		< 2% signal / month	
Resolution		10 ppm	5 ppm
Response time		T ₉₀ < 110 sec.	T ₉₀ < 90 sec.
Approvals		ATEX II G Ex D IIC T6 Gb	

Cross-sensitivity data:		
Gas	Concentration (ppm)	Output (equivalent ppm of H ₂)
H ₂ S	25	0
SO ₂	5	0
CO	50	200
NO	35	<10
NO ₂	5	0
C ₂ H ₄	100	80
Cl ₂	10	0

Gas	Formula	Product code	
PHOSPHINE	PH ₃	1004582	1004583
Nominal Range		0 ÷ 5 ppm	0 ÷ 2.000 ppm
Maximum Overload		20 ppm	4.000 ppm
Expected operating life		2 years in air	
Long Time Output Drift		< 2% signal / month	
Resolution		0,02 ppm	1 ppm
Response time		T ₉₀ < 30 sec.	T ₉₀ < 60 sec.
Approvals		ATEX II G Ex D IIC T6 Gb	
Cross-sensitivity data:			
Gas	Concentration (ppm)	Output (equivalent ppm of PH ₃)	
CO	1.000	1,5	
H ₂ S	15	5	
SO ₂	5	1	
NO ₂	5	-1,5	
H ₂	1.000	1	
NH ₃	35	1	
C ₂ H ₄	100	0	

Gas	Formula	Product code	
CHLORINE DIOXIDE	ClO ₂	1004584	1004585
Nominal Range		0 ÷ 1 ppm	0 ÷ 20 ppm
Maximum Overload		10 ppm	50 ppm
Expected operating life		2 years in air	
Long Time Output Drift		< 2% signal / month	
Resolution		0,1 ppm	0,1 ppm
Response time		T ₉₀ < 60 sec.	
Approvals		ATEX II G Ex D IIC T6 Gb	
Cross-sensitivity data:			
Gas	Concentration (ppm)	Output (equivalent ppm of ClO ₂)	
		1004584	1004585
H ₂ S	20	-12	-5
NO ₂	10	6	14
CO	100	0	0
H ₂	3.000	0	0
Cl ₂	1	0,35	/
Cl ₂	10	/	15
CO ₂	5.000	0	0

Gas	Formula	Product code	
HYDROCHLORIC ACID	HCl	1004586	1004587
Nominal Range		0 ÷ 50 ppm	0 ÷ 20 ppm
Maximum Overload		100 ppm	50 ppm
Expected operating life		2 years in air	
Long Time Output Drift		< 2% signal / month	
Resolution		0,5 ppm	1 ppm
Response time		T ₉₀ < 70 sec.	
Approvals		ATEX II G Ex D IIC T6 Gb	
Cross-sensitivity data:			
Gas	Concentration (ppm)	Output (equivalent ppm of HCl)	
CO	100	0	
H ₂ S	25	130	
SO ₂	20	35	
NO ₂	10	1	
NO	20	50	
H ₂	2.000	0	
N ₂	100%	0	

Gas	Formula	Product Code	
FORMALDEHYDE	CH ₂ O	1004588	
Nominal Range		0 ÷ 10 ppm	
Maximum Overload		50 ppm	
Expected operating life		2 years in air	
Long Time Output Drift		< 2% signal / month	
Resolution		0,05 ppm	
Response time		T ₉₀ < 90 sec.	
Approvals		ATEX II G Ex D IIC T6 Gb	
Cross-sensitivity data:			
Gas	Concentration (ppm)	Output (equivalent ppm CH ₂ O)	
CO	50	0,6	
Ethyl Alcohol	2.000	0,2	
C ₂ H ₄	100	0,7	