

More than 50 years of
experience in gas detection

PRODUCT BROCHURE

ATEX Classification



EX symbol

II

Equipment group

I = mining

II = other areas

1

Category

1 = to be used in Zone 0 or 20

2 = to be used in Zone 1 or 21

3 = to be used in Zone 2 or 22

M1 = mining (Zone 0 & 1)

M2 = mining (Zone 2)

G

Atmosphere

G = gas

D = dust

Conforms to European Ex-standards

EEx

Type of protection

o = oil immersion

p = pressurization

q = dust filling

d = flameproof enclosure

e = increased security

ia = intrinsically safe (required for Zone 0)

ib = intrinsically safe (suitable for Zone 1 & 2)

IIC

Explosion groups

I = methane

IIA = propane

IIB = ethylene

IIC = hydrogen

Ignition energy /μJ

280

>180

60-180

<60

T6

Temperature classification

T1 = 450 °C

T2 = 300 °C

T3 = 200 °C

T4 = 135 °C

T5 = 100 °C

T6 = 85 °C

ClipSens

Maintenance free gas detector for hydrogen sulfide, carbon monoxide, oxygen or sulfur dioxide



KEY FEATURES

- Disposable. Hibernation
- Lightweight and compact
- Stores up to 30 events
- Hibernation mode to increase the useful life
- Maintenance free
- 2 years use
- IP-67
- Rugged rubber case
- Configurable with SENSOTRAN IR Link
- Fastest bump-test with Docking Station
- Visual, loud and vibration alarm
- Docking Station can bump test and calibrate 4 instruments simultaneously
- The lowest Bump-Test cost

MP100

Single gas detector for oxygen (O₂) and toxic gases: CO, H₂S, NO₂, NH₃, SO₂, Cl₂, ClO₂, HCl, PH₃, O₃, methylmercaptan and ethylene oxide



KEY FEATURES

- 50% larger (AA versus 2/3 AA) Lithium Battery
- Widest choice of sensors on the market
- Large display
- 50 event datalogging
- Low cost of ownership
- Smart sensors
- Solid stainless-steel alligator clip
- Durable housing
- Fast calibration & download using docking station
- ATEX Certified

MultiSens

Diffusion multigas detector for up to four gases simultaneous measurement of up to four gases, including hydrogen sulfide, carbon monoxide, oxygen and flammable gases (LEL)



KEY FEATURES

- Compact, robust and reliable
- ATEX Zone 0 and IECEx Certification
- Easy operation with a single button
- Optical, acoustic and vibration alarm
- Verification and simple adjustment with the optional Docking Station
- Displays TWA and STEL values as well as exposure values
- Adjustable alarm levels through the Sensotran IR Link
- More than two months of data storage capacity

MP400

Multigas detector with suction pump for measurement of up to 5 gases simultaneously: oxygen (O₂) flammable (LEL) and toxic (CO, H₂S, HCN, SO₂) gases

KEY FEATURES

- Diffusion or pump options
- Battery operation 16 hours
- Durable double shot outer case
- 360-Degree LED alarm bar
- Man-Down alarm
- USB Micro charger & communications cable
- Flip screen
- Integrated calibration cup
- Smart sensors carry ID and calibration
- 6 months continuous datalogging
- Modular design



NEO PID

VOC Monitors (Volatile Organic Compounds)
for the detection of ppb (parts per billion)



KEY FEATURES

- Range from 1 ppb to 15,000 ppm
- Benzene specific version (NEO BENZ)
- Most stable ppb-level PID on the market
- Outstanding linearity over full measurement range
- Easy charging on laptop or other USB port USB Micro Charger
- Combination USB-m charging and communications cable powerful battery (run time 24 hours)
- Bluetooth Low Energy (BLE) connectivity standard
- ISM Wireless communication at longer distances and with no subscription fees
- Large backlight graphic display
- Lamp glow indicator
- Rugged, stainless-steel housing with rubber outer boot

Sensotox 2

Remote gas detector with display and relays for flammable, toxic gases, oxygen and VOCs



KEY FEATURES

- Robust and reliable
- Flexible output options
- Catalytic, Infrared, Electrochemical Photoionization (PID) sensor options
- Explosion proof case
- ATEX II 2G Ex db IIC T6 Gb
- Two alarm relays*
- Non-intrusive one-man calibration with magnets*
- Backlight display on alarm*
- 4-20 mA analog output
- ModBus RS485 digital output
- Addressable or independent
- Wireless modem 868MHz*
- Datalogging capacity as it forms part of a system with GasVisor and SenView software
- Correction factors for the LEL sensor

Sensotox C2

Remote gas detector with display and relays fitted with NFC™

KEY FEATURES

- Easy installation
- 110-220 V AC supply
- Multiple sensors available
- Flexible output options
- 3 alarm levels
- Adjustment by keypad
- Addressable or independent
- RS485 or RS232 communication by means of adapter
- 4-20 mA analogue output
- Plug and Play
- Calibration by a single person
- Two alarm relays plus fault relay
- Datalogging
- NFC™



GasVisor

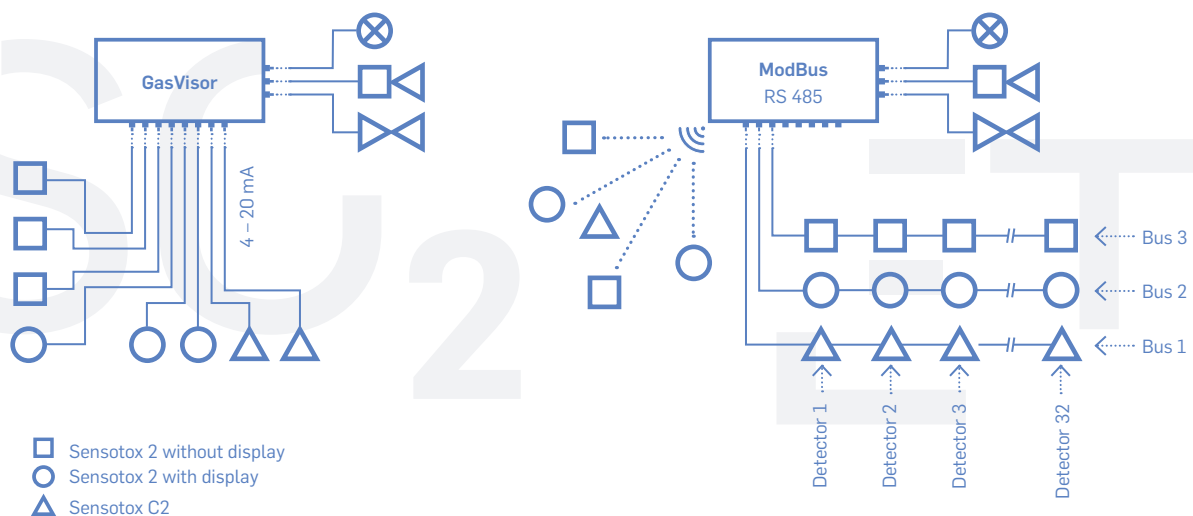
Easy-to-configure wall mount control system
from 3 to 256 gas detection channels



KEY FEATURES

- Touch color display
- Intuitive operation without training
- From 3 to 256 detection channels
- 4-20mA, Modbus RS485 and wireless inputs
- Three alarm relays and one fault relay
- Built-in alarm buzzer
- Easy configuration
- SenView software for facilities management *
- Readings and event datalog *
- Optical, acoustic and vibration alarm
- IP65 Protection for outdoor use

CONNECTION SCHEME



Colorimetric tubes

Gas detection colorimetric tubes

KEY FEATURES

- Most of compounds available
- Multiple measuring ranges
- 2 year storage lifetime
- Compatible with sampling pumps



Badges

Measure workplace exposure or room concentrations of toxic vapours for 15 minute or 8 hour sampling



KEY FEATURES

- Badge for toxic vapors
- Sampling time from 15 minutes to 8 hours
- More than 80 vapors available
- Results within 6 – 10 days (AIHA and New York ELAP accredited laboratory-fully reviewed QA/QC Procedures)
- Meets OSHA and NIOSH accuracy requirements
- Validated analytical methods

Calibration Cylinders

For bump test and calibration

KEY FEATURES

- Pure and mixtures cylinders
- +100 available references
- Certified cylinders with 34, 58 & 108 liters capacity
- Accessories: Flow regulator, adapters and tubes



SenCom

Monitoring system for the main gases produced in aerobic processes

KEY FEATURES

- Sampling and conditioning system
- Condensate elimination system
- Oxygen, carbon dioxide and ammonia sensors
- Prepared to clean the sampling tubes
- Mounted in metal cabinet



SenBio

Biogas analysis system for the measurement of methane, carbon dioxide, oxygen and hydrogen sulfide



KEY FEATURES

- Analysis system for flammable gases, oxygen, carbon dioxide, hydrogen sulfide
- Explosive detector for leakage protection in the cabinet
- Sampling system and conditioning of the sample gas
- Condensate elimination system
- Metal cabinet mounting

SenEmi

Stack gas emissions analyzer for monitoring O₂, CO₂, CO, NO, NO₂ and others flue gases, to operate stand-alone with the continuous emissions monitoring system

KEY FEATURES

- Analysis system for oxygen, carbon monoxide, hydrogen sulfide, nitrogen oxide, nitrogen dioxide, chlorine, ammonia, sulfur dioxide, volatile organic compounds, etc ...
- Sampling and conditioning system
- Condensate elimination system
- Metal cabinet mounting
- Controller with color touch screen for alarm actuation, relay switching and configuration and storage of historical data



EmiMue

Gas sampling system from 1 to 4 channels adapted and customized for your application



KEY FEATURES

- Customizable gas sensors according to needs
- Sampling system and conditioning of the sample gas from 1 to 4 channels
- Analysis system from 1 to 4 gas detection sensors
- Equipped with a control unit*
- System with purge circuit
- Metal cabinet mounting

* Optional

CAS	Compound	Synonym	Formula	Group	Temperature group	Self-inflammability temperature
105-57-7	Acetal	1.1 Diethoxyethane	$C_6H_{14}O_2$	IIA	T3	230
108-05-4	Vinyl Acetate		$CH_3COOCH=CH_2$	IIA	T2	425
74-86-2	Acetylene		C_2H_2	IIC	T2	305
67-64-1	Acetone	Propanone/Dimethyl ketone	CH_3COCH_3	IIA	T1	535
64-19-7	Acetic acid	Ethanoid	CH_3COOH	IIA	T1	464
74-90-8	Hydrocyanic acid	Hydrogen Cyanide	HCN	IIB	T1	538
107-13-1	Acrylonitrile	Vinyl Cyanide	$CH_2=CHCN$	IIB	T1	480
64-17-5	Ethyl alcohol	Ethanol	C_2H_5OH	IIA	T2	363
67-56-1	Methyl alcohol	Methanol	CH_3OH	IIA	T2	386
7664-41-7	Ammonia	Nitrogen Trihydride	NH_3	IIA	T1	630
62-53-3	Aniline	Phenylamine (Aminobenzene)	$C_6H_5NH_2$	IIA	T1	630
71-43-2	Benzene	Benzol	C_6H_6	IIA	T1	560
106-99-0	Butadiene	Erythrene	$CH_2=CHCH=CH_2$	IIB	T2	430
75-28-5	Iso Butane	2-Methylpropane	$(CH_3)_2CHCH_3$	IIA	T1	460
75-01-4	Vinyl chloride	V.C.M. (Chlorine-ethane)	C_2H_3Cl	IIA	T2	415
100-42-5	Styrene	Phenyl-ethylene	$C_6H_5CH=CH_2$	IIA	T1	490
74-84-0	Ethane		C_2H_6	IIA	T1	515
74-85-1	Ethylene		C_2H_4	IIB	T2	425
50-00-0	Formaldehyde	Paraformaldehyde	$HCHO$	IIB	T2	424
86290-81-5	Gasoline 100 octane			IIA	T3	429
110-54-3	Hexane		C_6H_{14}	IIA	T3	233
302-01-2	Hydrazine	Diamine	N_2H_4		T3	270
1333-74-0	Hydrogen		H_2	IIC	T1	560
74-82-8	Methane		CH_4	IIA	T1	537
78-93-3	Methyl ethyl ketone	(MEK) Butanone-2	$CH_3COC_2H_5$	IIA	T1	474
624-83-9	Methylisocyanate	Methyl isocyanate	CH_3NCO	IIA	T1	517
630-08-0	Carbon oxide	Carbon Monoxide	CO	IIB	T1	805
75-21-8	Ethylene oxide	Oxirane	OCH_2CH_2	IIB	T2	435
109-66-0	Pentano		C_5H_{12}	IIA	T3	258
74-98-6	Propane		C_3H_8	IIA	T1	470
115-07-1	Propylene	Propene	$CH_2=CHCH_3$	IIA	T1	455
75-15-10	Carbon Sulfide	Carbon Disulphide	CS_2	IIC	T6	95
7783-06-4	Hydrogen Sulfide		H_2S	IIB	T3	270
108-88-3	Toluene	Methyl Benzene	$C_6H_5CH_3$	IIA	T1	535
121-44-8	Triethylamine	N,N-Diethylethanamine	$(CH_3CH_2)_3N$	IIA	T3	230
64742-82-1	White spirit	(Petroleum naphtha)		IIA	T3	232
95-47-6	Xylene	Di-methyl-benzene	$C_6H_4(CH_3)_2$	IIA	T1	464

Point flash	Air density= 1	Initial boiling point	Explosivity				Toxicity			
			% Volume in air		g./m³ at 760 mm. Temp. = 20 °C		Limit values (T.L.V.)			
							T.W.A.		S.T.E.L.	
			L.I.E.	L.S.E.	L.I.E.	L.S.E.	p.p.m.	mg./m³	p.p.m.	mg./m³
-21	4,1	103	1,6	10,4	80	510				
-8	3	72	2,6	13,4	93	478	10	36	15	54
-18	0,9	S a - 84	2,3	100	24	1092				
<-20	2	56	2,5	13	80	316	500, A4	1210, A4	750, A4	1782
40	2,07	118	4	17	100	428	10	25	15	37
-18	0,9	26	5,4	46,6	60	520			C 4,7	C 5,3
-5	1,83	77	2,8	28	64	620	2 A2	4,4 A2		
12	1,59	78	3,1	19	59	363	1.000	1910		
11	1,11	65	5,5	38,0	73	484	200	266	250	328
Gas	0,59	-33	15	33,6	107	240	20	14	50	36
75	3,22	184	1,2	11	47	425	2 A3	7,6 A3		
-11	2,7	80	1,2	8,6	39	280	1 A1	3,25 A1		
-85 gas	1,87	-4	1,4	16,3	31	365	2 A2	4,5 A2		
gas	2	-12	1,3	9,8	31	236	1000			
-78 gas	2,15	-14	3,6	33	94	610	3-A1	7,8-A1		
30	3,6	145	1,1	8	48	350	20 A4	86 A4	40 A4	172 A4
Gas	1,04	-89	2,5	15,5	31	194	1000			
Gas	0,97	-104	2,3	36,0	26	423	200			
Gas	1,03	-19	7	73	88	920			C0,3-A2	C0,37-A2
-38	>3	40	1,6	6			300, A3	890	500	1.480
-21	2,97	69	1,0	8,4	35	290	20	72		
(38)	1,05	113	4,7	100	60	1.264	0,01 A3	0,013 A3	(Dermal route)	
Gas	0,07	-253	4	77,0	3,4	63				
Gas	0,55	-161	4,4	17,0	29	113	1000			
-6	2,5	80	1,8	11,5	50	350	200	600	300	900
-7	1,98	39	5,3	26	123	605	0,02	0,047		
Gas	0,97	-191	10,9	74	126	870	25	29		
<-18	1,52	11	2,6	100	47	1.848	1-A2	1,8-A2		
-40	2,48	36	1,4	7,8	42	236	1000	3000		
-104 Gas	1,56	-42	1,7	10,9	31	200	1000			
Gas	1,5	-48	2	11,0	35	194	500			
-30	2,64	46,3	0,6	60	19	1.900	10	31	(Dermal route)	
Gas	1,19	-60	4,0	45,5	57	650	10	14	15	21
4	3,2	111	1,1	7,6	42	300	50 A4	192 A4	100 A4	384 A4
-17	3,5	89	1,2	8	51	339	2 A4	8,4 A4	3 A4	12,6 A4
27	>1	220	0,8	3,7			50	290	100	580
30	3,6	144	1	7,6	44	335	50 A4	221 A4	100 A4	442 A4



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