

Preliminary Remarks

- This list can only state a selection of gases and vapours which can be measured. In case of not listed gases we kindly ask you to contact *ExTox*.
- You will find parameters for explosion and health protection concerning the listed gases and vapours on freely accessible databases. *ExTox* uses the GESTIS database on hazardous substances (www.gestis.dguv.de).
- Cross sensitivities may vary from the values mentioned here for each sample of sensor. Also, additional cross sensitivities to not listed substances may exist.
- Specification of sensor life times are listed only if they differ from the common specification given in the transmitter data sheets.
- The following types are not mentioned in the list below. The *ExTox* Sales Team will inform you about article numbers on demand.
 - Transmitter ExSens-I/Sens-I: integrated RS 485-Interface for remote adjustment
 - Transmitter ...-IR3: measuring tolerances are more constricted for this type compared with Type ...-IR2. But this type is not suitable for measurement in aggressive medium, e. g. biogas or landfill gas.
 - Transmitter ExSens ...-V-...: type with sealed sensor block for operation in sampling systems, e. g. *ExTox* IMC.
 - Transmitter Sens ...-P-...-IR: types including integrated pressure compensation
 - Transmitter Sens with stainless steel (VA) housing for areas with special hygienic requirements
- On demand the Standard (Measuring) Range can at factory-sided adjustment be varied in range of 50 to 200 %. Higher deviations may be possible on demand.

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/ Remarks
Acetone (CH ₃ COCH ₃)	0...20 % (v/v)	C3H6O-20-IR3	211332/ -----	
	0...100 % LEL			see: Flammable Gases
Acetonitrile (CH ₃ CN)				see: Ethylene Oxide
Acetylene (C ₂ H ₂)				see: Flammable Gases
Alcohols, e. g. Methanol, Ethanol	0...100 % LEL			see: Flammable Gases
	0...200 ppm	CH3OH-200-EC	211306/ 251078	<ul style="list-style-type: none"> Cross sensitivities: <ul style="list-style-type: none"> 100 ppm CO → appr. 60 ppm CH₃OH unsaturated hydrocarbons → quantisation not possible Temperature: -30 °C bis +45 °C Response time t₉₀: 30 s (Ethanol), 180 s (Methanol) Dimensions Type Sens: 188 mm x 105 mm x 65 mm
Ammonia (NH ₃)	0...30000 ppm (3 % (v/v))	NH ₃ -3-WT	211202/ 251000	<ul style="list-style-type: none"> Main application: ammonia refrigerating plants: machine rooms (ambient air) and discharging lines (installation with pipe adapter) Temperature: -20 °C to +55 °C Response time t₉₀: 20 s
	0...5000 ppm	NH ₃ -5000-EC	211319/ -----	<ul style="list-style-type: none"> As F2-1-EC, except Transmitter with extension of measuring range Operation in sampling systems, e. g. <i>ExTox</i> IMC Dimensions Type Sens: 188 mm x 105 mm x 65 mm
	0...1000 ppm	NH ₃ -1000-EC	211201/ 251010	<ul style="list-style-type: none"> Main application: ammonia refrigerating plants: machine rooms, production and storage rooms (ambient air) Lifetime is dose dependent, basic load with ammonia at place of installation to be avoided. Cross sensitivities: <ul style="list-style-type: none"> 20 ppm H₂S → appr. 20 ppm NH₃ 20 ppm SO₂ → appr. -10 ppm NH₃ (!) 20 ppm NO₂ → appr. -20 ppm NH₃ (!) Temperature: -20 °C to +45 °C Response time t₉₀: 75 s

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/ Remarks
Ammonia (NH ₃) - continued -	0...1000 ppm	NH ₃ -T-1000-EC	211220/ 251014	<ul style="list-style-type: none"> Main application: ammonia refrigerating plants: machine rooms, production and storage rooms (ambient air) Lifetime is dose dependent, basic load with ammonia at place of installation to be avoided. Cross sensitivities: 20 ppm H₂S → appr. 20 ppm NH₃ 20 ppm SO₂ → appr. -10 ppm NH₃ (!) 20 ppm NO₂ → appr. -20 ppm NH₃ (!) Temperature: -40 °C to +45 °C (low temperature application) Response time t₉₀: 75 s
	0...1000 ppm	NH ₃ -1000-HL2	211303/ 251073	<ul style="list-style-type: none"> Main application ammonia refrigerating plants: machine room (ambient air) Warning device, measuring accuracy limited due to measuring principle Temperature: -20 °C to +55 °C Response time t₉₀: 60 s
	0...100 ppm	NH ₃ -100-EC2	211296/ 251071	<ul style="list-style-type: none"> Main application work places (ambient air) Lifetime is dose dependent, basic load with ammonia at place of installation to be avoided. Cross Sensitivities: 20 ppm H₂S → appr. 7 ppm NH₃ 20 ppm SO₂ → appr. -7 ppm NH₃ (!) 20 ppm NO₂ → appr. -20 ppm NH₃ (!) 20 ppm Cl₂ → appr. -55 ppm NH₃ (!) Temperature: -10 °C to +40 °C Response time t₉₀: 60 s
Ammonia (NH ₃) in fluid medium in brine	0...20 ppm	NH ₃ -20-IS	291015 291054/ -----	<ul style="list-style-type: none"> Main application: ammonia refrigerating plants: brine and cooling water circuits, basins separate Data Sheet
Antimony Hydrogen (SbH ₃)				see: Hydride Gases (Silane, Phosphine)
Argon (Ar)				Can only be measured by means of oxygen deficiency
Arsine (AsH ₃)				see: Hydride Gases (Silane, Phosphine)
Benzene (C ₆ H ₆)				see: Flammable Gases
Boron Trichloride (BCl ₃)				see: Hydrogen Chloride
Boron Trifluoride (BF ₃)				see: Hydrogen Fluoride
Butane, n-/ Isobutane (C ₄ H ₁₀)				see: Flammable Gases
Butane-1-ol (C ₄ H ₉ OH)				see: Flammable Gases
Butane-2-ol (C ₄ H ₉ OH)				see: Flammable Gases
Butanone (CH ₃ COC ₂ H ₅)				see: Flammable Gases
Butylacetate (CH ₃ COOC ₄ H ₉)				see: Flammable Gases
Carbon Dioxide (CO ₂)	0...100 % (v/v)	CO ₂ -100-IR2	211226/ 251031	<ul style="list-style-type: none"> Main application: gas analysis, e. g. biogas and landfill gas Operation in sampling systems, e. g. Ex-Tox IMC above 50 % (v/v) measuring accuracy is limited Temperature: -10 °C to +55 °C Response Time t₉₀: 25 s (operation by means of aspiration: 10 s)

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/Remarks	
Carbon Dioxide (CO ₂) - continued -	0...100 % (v/v)	Smart-Modul CO2-100-IR2	293006/ -----	<ul style="list-style-type: none"> Special version Operation in sampling systems only, e. g. ExTox IMC Measuring gas cooler necessary at changing moisture contents Temperature: -20 °C to +40 °C Response Time t₉₀: 30 s Dimensions Type Sens: 188 mm x 105 mm x 65 mm 	
	0...100 % (v/v)	IR-Gascard	293010 293001	<ul style="list-style-type: none"> Special version (Gascard) Pressure compensation (except art. 293001) 	
	0...100 % (v/v)		293019	<ul style="list-style-type: none"> Operation in sampling systems only, e. g. ExTox IMC 	
	0...30 % (v/v)		-----	<ul style="list-style-type: none"> Top hat rail mounting in closed housings only 	
	0...5 % (v/v)			<ul style="list-style-type: none"> Measuring gas cooler necessary at changing moisture contents Temperature: -10 °C to +40 °C Response Time t₉₀: 30 s 	
	0...5 % (v/v)	CO2-5-IR2	211236/ 251016	<ul style="list-style-type: none"> Temperature: -10 °C to +55 °C Response Time t₉₀: 25 s 	
	0...5 % (v/v)	CO2-T-5-IR2	211241/ 251051	<ul style="list-style-type: none"> Temperature: -25 °C to +55 °C (low temperature application) Response Time t₉₀: 25 s 	
	0...10000 ppm (0...1 % (v/v))	CO2-10000-IR3	211292/ -----	<ul style="list-style-type: none"> Temperature: 0 °C to +45 °C Response Time t₉₀: 25 s 	
	0...5000 ppm	CO2-5000-IR2	211237/ 251021	<ul style="list-style-type: none"> Temperature: -10 °C to +55 °C Response Time t₉₀: 25 s 	
	0...1000 ppm	CO2-1000-IR3	211307/ -----	<ul style="list-style-type: none"> Temperature: 0 °C to +45 °C Response Time t₉₀: 25 s 	
	0...500 ppm	CO2-500-IR3	211261/ 251089	<ul style="list-style-type: none"> Temperature: 0 °C to +45 °C Response Time t₉₀: 25 s 	
	Carbon Monoxide (CO)	0...100 % (v/v)	IR-Gascard	293013 293007	<ul style="list-style-type: none"> Special version (gas card) Pressure compensation (except art. 293007 and 293008)
		0...100 % (v/v)		293018 293008	<ul style="list-style-type: none"> Operation only in sampling systems, e. g. ExTox IMC
0...35 % (v/v)			293021/ -----	<ul style="list-style-type: none"> Top hat rail mounting in closed housings only 	
0...35 % (v/v)				<ul style="list-style-type: none"> Measuring gas cooler necessary at changing moisture contents Temperature: -10 °C to +40 °C Response Time t₉₀: 30 s 	
0...5 % (v/v)					
0...50 % (v/v)		CO-50-IR-P	211339/ -----	<ul style="list-style-type: none"> Special version Operation only in sampling systems, e. g. ExTox IMC Temperature: -10 °C to +40 °C Response Time t₉₀: 20 s Dimensions Type Sens: 188 mm x 105 mm x 65 mm 	
0...30 % (v/v)	CO-30-IR-P	211305/ -----	<ul style="list-style-type: none"> Special version Operation only in sampling systems, e. g. ExTox IMC Temperature: -10 °C to +40 °C Response Time t₉₀: 20 s Dimensions Type Sens: 188 mm x 105 mm x 65 mm 		
0...4 % (v/v) (40000 ppm)	CO-4-EC	211256/ 251091	<ul style="list-style-type: none"> Cross sensitivities: 10000 ppm H₂ → appr. 10000 ppm CO 10000 ppm C₂H₄ → appr. 1000 ppm CO Filter for NO and acidic gases integrated (Capacity: appr. 400000 ppm·h NO) Temperature: -20 °C to +40 °C Response Time t₉₀: 40 s 		

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/Remarks
Carbon Monoxide (CO) - continued -	0...2 % (v/v)	CO-2-IR-P	211278/ -----	<ul style="list-style-type: none"> ▪ Special version ▪ Operation only in sampling systems, e. g. ExTox IMC ▪ Temperature: -10 °C to +40 °C ▪ Response Time t_{90}: 20 s ▪ Dimensions Type Sens: 188 mm x 105 mm x 65 mm
	0...5000 ppm	CO-5000-IR-P	211329/ -----	<ul style="list-style-type: none"> ▪ Special version ▪ Operation only in sampling systems, e. g. ExTox IMC ▪ Temperature: -10 °C to +40 °C ▪ Response Time t_{90}: 20 s ▪ Dimensions Type Sens: 188 mm x 105 mm x 65 mm
	0...4000 ppm	CO-4000-EC	211230/ 251030	<ul style="list-style-type: none"> ▪ Cross sensitivities: 1000 ppm H₂ → appr. 600 ppm CO 1000 ppm C₂H₄ → appr. 100 ppm CO ▪ Filter for NO and acidic gases integrated (Capacity: appr. 400000 ppm·h NO) ▪ Temperature: -20 °C to +40 °C ▪ Response Time t_{90}: 40 s
	0...2000 ppm	CO-2000-IR-P	211302/ -----	<ul style="list-style-type: none"> ▪ Special version ▪ Operation only in sampling systems, e. g. ExTox IMC ▪ Temperature: -10 °C to +40 °C ▪ Response Time t_{90}: 20 s ▪ Dimensions Type Sens: 220 mm x 140 mm x 85 mm
	0...300 ppm	CO-300-EC	211205/ 251006	<ul style="list-style-type: none"> ▪ Cross sensitivities: 100 ppm H₂ → appr. 40 ppm CO 10 ppm C₂H₄ → appr. 1 ppm CO ▪ Filter for NO and acidic gases integrated (Capacity: appr. 400000 ppm·h NO) ▪ Temperature: -30 °C to +40 °C ▪ Response Time t_{90}: 40 s
	0...50 ppm	CO-50-EC	211308/ 251099	<ul style="list-style-type: none"> ▪ Cross sensitivities: 10 ppm H₂ → appr. 4 ppm CO 10 ppm C₂H₄ → appr. 5 ppm CO 50 ppm C₂H₅OH → appr. 3 ppm CO ▪ Temperature: -10 °C to +40 °C ▪ Response Time t_{90}: 40 s
	Chlorine (Cl ₂)	0...10 ppm	Cl2-10-EC	211209/ -----
0...50 ppm		Cl2-50-EC	211298/ -----	As Cl2-10-EC

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/ Remarks
Chlorine Dioxide (ClO ₂)	0...1 ppm	ClO2-1-EC2	211276/ -----	<ul style="list-style-type: none"> ▪ Cross sensitivities: 1 ppm Cl₂ → appr. 0.6 ppm ClO₂ 20 ppm H₂S → appr. -5 ppm ClO₂ (!) 0.5 ppm O₃ → appr. 1.5 ppm ClO₂ ▪ Before calibration all parts which are in touch with gas have to be rinsed with test gas for minimum 30 min. ▪ Warning device, limited measuring accuracy ▪ An adjustment with Chlorine Dioxide is impossible under usual operation conditions. Calibration with replacement gas Chlorine. ▪ At place of installation a functional test can only be done with Chlorine ▪ Sensor protection cap made of PTFE ▪ Temperature: -20 °C to +40 °C ▪ Response Time t₉₀: 120 s, t₅₀: 20 s
Climatic Variables: Temperature,	-40...120 °C, 0...100 % r.H.,	TF	211265/ 251047	separate Data Sheet
Humidity, Pressure	-40...120 °C, 0...100 % r.H., 0...2000 hPa (mbar)	TFD	211255/ -----	separate Data Sheet
Diborane (B ₂ H ₆)				see: Hydride Gases (Silane, Phosphine)
Diethyl Ether (C ₂ H ₅ OC ₂ H ₅)				see: Flammable Gases
Dimethyl Ether (CH ₃ OCH ₃)				see: Flammable Gases
Ethane (C ₂ H ₆)				see: Flammable Gases
Ethanol (C ₂ H ₅ OH)				see: Alcohols/ Flammable Gases
Ethene (C ₂ H ₄)	0...100 % LEL			see: Flammable Gases
	0...2000 ppm	C2H4-2000-IR-P	211318/ -----	<ul style="list-style-type: none"> ▪ Special version ▪ Operation only in sampling systems, e. g. ExTox IMC ▪ Temperature: -10 °C to +40 °C ▪ Response Time t₉₀: 30 s ▪ Dimensions Type Sens: 220 mm x 140 mm x 85 mm
	0...1000 ppm	C2H4-1000-EC	211240/ 251022	<ul style="list-style-type: none"> ▪ Cross sensitivities: 10 ppm H₂ → appr. 6 ppm C₂H₄ 10 ppm H₂S → appr. 25 ppm C₂H₄ 10 ppm SO₂ → appr. 6 ppm C₂H₄ 10 ppm NO → appr. 3 ppm C₂H₄ 10 ppm NO₂ → appr. -6 ppm C₂H₄ (!) 10 ppm HCN → appr. 5ppm C₂H₄ ▪ Temperature: -10 °C to +40 °C ▪ Response Time t₉₀: 40 s
Ethine (C ₂ H ₂)				see: Flammable Gases
Ethyl Acetate (CH ₃ COOC ₂ H ₅)				see: Flammable Gases
Ethylene (C ₂ H ₄)				see: Ethene
Ethylene Oxide (C ₂ H ₄ O)	0...500 ppm	EO-500-EC	211311/ -----	<ul style="list-style-type: none"> As EO-100-EC with except of ▪ Transmitter with extension of measuring range ▪ Operation in sampling systems, e. g. ExTox IMC ▪ Dimensions Type Sens: 188 mm x 105 mm x 65 mm

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/ Remarks
Ethylene Oxide (C ₂ H ₄ O) - continued -	0...100 ppm	EO-100-EC	211219/ 251013	<ul style="list-style-type: none"> The used sensor disposes of a limited selectivity. But this fact allows an application for a lot of other gases, if these are only binary mixtures (target gas/air) and the absolute measuring accuracy only plays a subordinated role. Cross sensitivities (Selection): 100 ppm C₂H₆O → appr. 55 ppm C₂H₄O 100 ppm C₇H₈O → appr. 20 ppm C₂H₄O 100 ppm C₄H₈O → appr. 10 ppm C₂H₄O 100 ppm CO → appr. 40 ppm C₂H₄O (further gases: please contact ExTox on demand) Calibration with replacement gas: please contact ExTox Temperature: -20 °C to +40 °C Response Time t₉₀: 90 s Warm up time at cold start: 24 h
Flammable Gases and Vapours	0...100 % (v/v)	BG-100-IR2	211227/ 251024	<ul style="list-style-type: none"> Main application: gas analysis methane (CH₄), e. g. biogas or landfill gas Designed for measurement in the range of 40 to 60 % (v/v) CH₄ Operation in sampling systems, e. g. ExTox IMC Temperature: -20 °C to +55 °C Response Time t₉₀: 30 s (operation by means of aspiration: 10 s)
	0...100 % (v/v)	IR-Gascard	293009 293000	<ul style="list-style-type: none"> Main application: gas analysis methane (CH₄), gas feed-in systems Special version (Gascard) Pressure compensation (except art. 293000) Operation in sampling systems only, e. g. ExTox IMC Top hat rail mounting in closed housings only Measuring gas cooler necessary at changing moisture contents Temperature: -10 °C to +40 °C Response Time t₉₀: 30 s
	0...100 % (v/v)		293014	
	0...20 % (v/v)		293015/	
	0...5 % (v/v)		-----	
	0...100 % LEL	BG-IR2	211216/ 251005	<ul style="list-style-type: none"> Main application: areas with danger of sensor poison (e. g. waste water treatment plants), areas with oxygen reduction, areas with use of higher hydrocarbons Measuring gas: hydrocarbons (HC) Temperature: -20 °C to +55 °C Response Time t₉₀: 30 s (operation by means of aspiration: 10 s)
	0...100 % LEL	BG-WT	211206/ 251001	<ul style="list-style-type: none"> Main application: all standard applications for explosion protection Measuring gases: all flammable gases Temperature: -25 °C to +55 °C Response Time t₉₀: 15...60 s, depending on gas type
	0...100 % LEL	BG-HL	211207/ 251004	<ul style="list-style-type: none"> Main application: monitoring of ambient air, e. g. heating Measuring gases: Hydrogen, Methane, Propane, Butane (other gases possible acc. to prior agreement with ExTox) Warning device, measuring accuracy limited due to principle Temperature: -25 °C to +55 °C Response Time t₉₀: 30...60 s, depending on gas type

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/Remarks
Flammable Gases and Vapours - continued -	0...5000 ppm	BG-5000-HL	211215/ 251002	<ul style="list-style-type: none"> Main application: detection of leakages and gas traces Measuring gases: Hydrogen, Methane, Propane or Butane (other gases possible acc. to prior agreement with ExTox) Warning device, measuring accuracy limited due to principle Temperature: -25 °C to +55 °C Response Time t_{90}: 30...60 s, depending on gas type
Fluorine (F ₂)	0...10 ppm	F2-10-EC	211258/ -----	As F2-1-EC, except
	0...1 ppm	F2-1-EC	211228/ -----	<ul style="list-style-type: none"> Response Time t_{90}: 90 s, t_{50}: 40 s Warning device, limited measuring accuracy Lifetime: appr. 1...2 years Cross sensitivities: <ul style="list-style-type: none"> 0.1 ppm AsH₃ → appr. -0.15 ppm F₂ (!) 0.5 ppm Cl₂ → appr. 0.7 ppm F₂ 0.5 ppm O₃ → appr. 0.6 ppm F₂ 1 ppm HCl → appr. -1.5 ppm F₂ (!) 0.3 ppm HCN → appr. -1 ppm F₂ (!) 10 ppm SO₂ → appr. -0.1 ppm F₂ (!) 5 ppm NO₂ → appr. 4 ppm F₂ 0.5 ppm H₂S → appr. -1 ppm F₂ (!) Br₂, PH₃ (impossible to quantize) Before calibration all parts which are in touch with gas have to be rinsed with test gas for minimum 30 min. An adjustment with Fluorine is impossible under usual operation conditions. Calibration with replacement gas Chlorine. At place of installation a functional test can only be done with Chlorine Temperature: -10 °C to +40 °C Response Time t_{90}: 80 s, t_{50}: 30 s
Freons				see: Refrigerants
Fuels (Mixture)				see: Flammable Gases
Germane (GeH ₄)				see: Hydride Gases (Silane, Phosphine)
Helium (He)				Can only be measured by means of oxygen deficiency
Heptane, n- (C ₇ H ₁₆)				see: Flammable Gases
Hexane, n- (C ₆ H ₁₄)				see: Flammable Gases
Humidity, relative				see: Climatic Variables
Hydride Gases				see: Silane, Phosphine
Hydrogen (H ₂)	0...100 % (v/v)	WLD-Gascard	293012	<ul style="list-style-type: none"> Measuring principle: Thermal conductivity Main application: Gas analysis Special version (Gascard) Operation in sampling systems only, e. g. ExTox IMC Top hat rail mounting in closed housings only Measuring gas cooler necessary at changing moisture contents Measurement in binary gas mixtures (H₂/air) only. Every additional component will affect the readings due to different thermal conductivity) Temperature: -10 °C to +40 °C Response Time t_{90}: 30 s
		H2	293016	
	0...50 % (v/v)		293020	
	0...10 % (v/v)		293022/	
	0...5 % (v/v)		-----	
	0...100 % LEL	BG-WT	211206/ 251001	see: Flammable Gases
	0...100 % LEL	BG-HL	211207/ 251004	see: Flammable Gases

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/ Remarks
Hydrogen (H ₂) - continued -	0...2 % (v/v)	H2-2-EC	211229/ 251026	<ul style="list-style-type: none"> ▪ Cross sensitivities: 25 ppm H₂S → appr. 50 ppm H₂ ▪ H₂S: Filter with dose-dependent life time, unsaturated hydrocarbons (impossible to quantize) ▪ Temperature: -20 °C to +40 °C ▪ Response Time t₉₀: 60 s
	0...1 % (v/v)	H2-1-EC	211251/ 251077	<ul style="list-style-type: none"> ▪ Maximum measuring range: 1 % H₂ (v/v) ▪ Cross sensitivities: 100 ppm CO → appr. 60 ppm H₂, 10 ppm NO₂ → appr. -40 ppm H₂ (!), H₂S: Filter with dose dependent life time, unsaturated hydrocarbons (impossible to quantize) ▪ Temperature: -20 °C to +40 °C ▪ Response Time t₉₀: 60 s
	0...5000 ppm	BG-5000-HL	211215/ 251002	see: Flammable Gases
	0...5000 ppm	H2-5000-EC	211328/ 251093	<ul style="list-style-type: none"> ▪ Cross sensitivities: 100 ppm CO → appr. 70 ppm H₂ 50 ppm H₂S → appr. 10 ppm H₂ 50 ppm NO → appr. 20 ppm H₂ 50 ppm C₂H₄ → appr. 40 ppm H₂ other unsaturated hydrocarbons (impossible to quantize) ▪ Temperature: -20 °C to +50 °C ▪ Response Time t₉₀: 60 s
	0...1000 ppm	H2-1000-EC	211225/ 251017	<ul style="list-style-type: none"> ▪ Cross sensitivities: 10 ppm H₂S → appr. 2 ppm H₂ 10 ppm NO → appr. 3 ppm H₂ 10 ppm HCN → appr. 3 ppm H₂ 10 ppm C₂H₄ → appr. 8 ppm H₂ CO, unsaturated hydrocarbons (impossible to quantize) ▪ Temperature: -20 °C to +50 °C ▪ Response Time t₉₀: 60 s
	0...1000 ppm	H2-1000-EC incl. Activated carbon filter	211243/ -----	<ul style="list-style-type: none"> ▪ Main application: biogas analysis ▪ Active coal filter for reduction of cross sensitivities ▪ Operation only in sampling systems, e. g. ExTox IMC ▪ Cross sensitivities: active coal filter have to be replaced depending on contamination, otherwise penetration takes place ▪ Temperature: -20 °C to +40 °C ▪ Response Time t₉₀: 50 s
Hydrogen Bromide (HBr)				see: Hydrogen Chloride
Hydrogen Chloride (HCl)	0...50 ppm	HCL-50-EC	211210/ -----	<ul style="list-style-type: none"> ▪ Cross sensitivities: 1 ppm HBr → appr. 1 ppm HCl 20 ppm H₂S → appr. 60 ppm HCl 20 ppm SO₂ → appr. 10 ppm HCl 20 ppm HCN → appr. 10 ppm HCl 100 ppm NO → appr. 45 ppm HCl 0.2 ppm As → appr. 0.8 ppm HCl 0.1 ppm PH₃ → appr. 0.3 ppm HCl ▪ Before calibration all parts which are in touch with gas have to be rinsed with test gas for minimum 30 min. ▪ Temperature: -20 °C to +40 °C ▪ Response Time t₉₀: 90 s, t₅₀: 40s
Hydrochloric Acid Vapours (HCl)				see: Hydrogen Chloride

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/ Remarks
Hydrogen Cyanide (HCN)	0...30 ppm	HCN-30-EC	211239/ -----	<ul style="list-style-type: none"> ▪ Cross sensitivities: 50 ppm NO → appr. -3 ppm HCN (!) 20 ppm NO₂ → appr. -14 ppm HCN (!) 20 ppm H₂S → appr. 40 ppm HCN (delayed) ▪ Temperature: -30 °C to +40 °C ▪ Response Time t₉₀: 60 s, t₅₀: 30 s
Hydrogen Fluoride (HF)	0...10 ppm	HF-10-EC	211235/ -----	<ul style="list-style-type: none"> ▪ Cross sensitivities: 1 ppm Cl₂ → appr. 0.7 ppm HF 20 ppm SO₂ → appr. 16 ppm HF 10 ppm HCl → appr. 6 ppm HF Fluoride (impossible to quantize) ▪ Before calibration all parts which are in touch with gas have to be rinsed with test gas for minimum 30 min. ▪ Calibration with replacement gas Hydrogen Chloride or Chlorine. ▪ Temperature: -10 °C to +40 °C ▪ Response Time t₉₀: 100 s, t₅₀: 50 s
Hydrogen Peroxide (H ₂ O ₂)	0...100 ppm	H2O2-100-EC	211301/ -----	<ul style="list-style-type: none"> ▪ Cross sensitivities: 10 ppm SO₂ → appr. 10 ppm H₂O₂ ▪ Temperature: -20 °C to +40 °C ▪ Response time t₉₀: 60 s
Hydrogen Sulphide (H ₂ S)	0...5000 ppm	H2S-5000-EC/ H2S-V-5000-EC	211297/ 251075	<ul style="list-style-type: none"> ▪ Main application: gas analysis, e. g. biogas and landfill gas ▪ Operation only in sampling systems, e. g. ExTox IMC ▪ Cross sensitivities: 5 ppm NO₂ → appr. -3 ppm H₂S (!) 10 ppm NO → appr. 1 ppm H₂S 10 ppm Cl₂ → appr. -1.5 ppm H₂S (!) 5 ppm SO₂ → appr. 1 ppm H₂S 1 % (v/v) H₂ → appr. 20 ppm H₂S 100 ppm CO → appr. 2 ppm H₂S ▪ Hydrogen Sulphide concentrations above the end value of measuring range may destroy the sensor already after a short time. ▪ Temperature: -30 °C to +45 °C ▪ Response Time t₉₀: 60 s
	0...3000 ppm	H2S-3000-EC/ H2S-V-3000-EC2	211224/ 251049	<ul style="list-style-type: none"> ▪ Main application: gas analysis, e. g. biogas and landfill gas ▪ Transmitter with extension of measuring range ▪ Operation in sampling systems, e. g. ExTox IMC ▪ Cross sensitivities: 5 ppm NO₂ → appr. -1 ppm H₂S (!) 5 ppm SO₂ → appr. 1 ppm H₂S 1 % (v/v) H₂ → appr. 15 ppm H₂S 100 ppm CO → appr. 2 ppm H₂S ▪ Hydrogen Sulphide concentrations above the end value of measuring range may destroy the sensor already after a short time. ▪ Temperature: -30 °C to +45 °C ▪ Response time t₉₀: 60 s ▪ Dimensions Type Sens: 188 mm x 105 mm x 65 mm

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/ Remarks
Hydrogen Sulphide (H ₂ S) - continued -	0...100 ppm	H2S-100-EC	211212/ 251003	<ul style="list-style-type: none"> ▪ Main application: ambient air monitoring, gas analysis ▪ Cross sensitivities: 5 ppm NO₂ → appr. -1 ppm H₂S (!) 5 ppm SO₂ → appr. 1 ppm H₂S 1 % (v/v) H₂ → appr. 15 ppm H₂S 100 ppm CO → appr. 2 ppm H₂S ▪ Hydrogen Sulphide concentrations above the end value of measuring range may destroy the sensor already after a short time. ▪ Temperature: -30 °C to +45 °C ▪ Response Time t₉₀: 60 s
	0...100 ppm	H2S-100-EC-BIO	211289/ ---	<ul style="list-style-type: none"> ▪ Main application: gas analysis, e. g. biogas and landfill gas ▪ Protection against Hydrogen Sulphide concentrations above the end value of measuring range up to appr. 500 ppm ▪ Operation only in sampling systems, e. g. ExTox IMC ▪ Cross sensitivities: 5 ppm NO₂ → appr. -1 ppm H₂S (!) 5 ppm SO₂ → appr. 1 ppm H₂S 1 % (v/v) H₂ → appr. 15 ppm H₂S 100 ppm CO → appr. 2 ppm H₂S ▪ Temperature: -30 °C to +45 °C ▪ Response Time t₉₀: 60 s ▪ Dimensions Type Sens: 188 mm x 105 mm x 65 mm
	0...50 ppm	H2S-50-EC	211287/ -----	<ul style="list-style-type: none"> ▪ Low cross sensitivity to H₂ ▪ Cross sensitivities: 5 ppm NO₂ → appr. -1 ppm H₂S (!) 5 ppm SO₂ → appr. 1 ppm H₂S 1 % (v/v) ppm H₂ → < 5 ppm H₂S ▪ H₂S concentrations above the end value of measuring range may destroy the sensor already after a short time. ▪ Temperature: -30 °C to +50 °C ▪ Response Time t₉₀: 60 s
	0...10 ppm	H2S-10-EC	211336/ -----	<ul style="list-style-type: none"> ▪ Cross sensitivities: 5 ppm NO₂ → appr. -1 ppm H₂S (!) 5 ppm SO₂ → appr. 1 ppm H₂S 0.5 % (v/v) ppm H₂ → < 10 ppm H₂S 300 ppm CO → appr. 1 ppm H₂S 10 ppm Mercaptan (MM, TBM) → appr. 3 to 5 ppm H₂S ▪ H₂S concentrations above the end value of measuring range may destroy the sensor already after a short time. ▪ Temperature: -30 °C to +50 °C ▪ Response Time t₉₀: 60 s
IPA				see: Propanol
Isopropyl Acetate (CH ₃ COOC ₃ H ₇)				see: Flammable Gases
Kerosine (Mixture)				see: Flammable Gases
Laughing gas (N ₂ O)				see: Nitrous Oxide
Mercaptan				see: Tetrahydrothiophene
Methane (CH ₄)				see: Flammable Gases
Methanol (CH ₃ OH)				see: Alcohols/ Flammable Gases
Methyl Acetate (CH ₃ COOCH ₃)				see: Flammable Gases
Methyl Ethyl Ketone/ MEK (CH ₃ COC ₂ H ₅)				see: Flammable Gases
Nitrogen (N ₂)				Can only be measured by means of oxygen deficiency
Nitrogen Oxide (NO _x)				see Nitrogen Monoxide

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/Remarks
Nitrogen Dioxide (NO ₂)	0...5000 ppm	NO2-5000-EC	211293/ -----	<ul style="list-style-type: none"> Lifetime: appr. 2 years Cross sensitivities: <ul style="list-style-type: none"> 10 ppm H₂S → appr. -1 ppm NO₂ (!) 1 ppm O₃ → appr. 1 ppm NO₂ 10 ppm Cl₂ → appr. 7 ppm NO₂ Temperature: -30 °C to +45 °C Response Time t₉₀: 60 s
	0...1000 ppm	NO2-1000-EC	211223/ -----	<ul style="list-style-type: none"> Operation in sampling systems, e. g. Ex-Tox IMC Transmitter with extension of measuring range Lifetime: appr. 2 years Cross sensitivities: <ul style="list-style-type: none"> 10 ppm H₂S → appr. -1 ppm NO₂ (!) 10 ppm SO₂ → appr. -0.1 ppm NO₂ (!) 10 ppm Cl₂ → appr. 10 ppm NO₂ Temperature: -20 °C to +45 °C Response Time t₉₀: 60 s Dimensions Type Sens: 188 mm x 105 mm x 65 mm
	0...20 ppm	NO2-20-EC	211222/ 251015	<ul style="list-style-type: none"> Lifetime: appr. 2 years Cross sensitivities: <ul style="list-style-type: none"> 10 ppm H₂S → appr. -1 ppm NO₂ (!) 10 ppm SO₂ → appr. -0.1 ppm NO₂ (!) 10 ppm Cl₂ → appr. 10 ppm NO₂ Temperature: -20 °C to +45 °C Response Time t₉₀: 40 s
	0...1 ppm	NO2-1-EC	211317/ -----	<ul style="list-style-type: none"> Lifetime: appr. 2 years Cross sensitivities: <ul style="list-style-type: none"> 10 ppm H₂S → appr. -15 ppm NO₂ (!) 1 ppm O₃ → appr. 2 ppm NO₂ 10 ppm Cl₂ → appr. 20 ppm NO₂ Temperature: -30 °C to +45 °C Response Time t₉₀: 60 s
Nitrogen Monoxide (NO)	0...3000 ppm	NO-3000-EC	211275/ -----	<ul style="list-style-type: none"> Lifetime: appr. 2 years Cross sensitivities: <ul style="list-style-type: none"> 100 ppm H₂S → appr. 0.5 ppm NO 100 ppm NO₂ → appr. 1 ppm NO Temperature: -20 °C to +40 °C Response Time t₉₀: 20 s
	0...100 ppm	NO-100-EC	211214/ 251008	<ul style="list-style-type: none"> Can be used for sum measurement of NO_x Lifetime: appr. 2 years Cross sensitivities: <ul style="list-style-type: none"> 100 ppm H₂S → appr. 1 ppm NO 10 ppm NO₂ → appr. 3 ppm NO Temperature: -20 °C to +40 °C Response Time t₉₀: 20 s
	0...25 ppm	NO-25-EC	211316/ -----	<ul style="list-style-type: none"> Lifetime: appr. 2 years Cross sensitivities: <ul style="list-style-type: none"> 100 ppm H₂S → appr. 3 ppm NO 10 ppm NO₂ → appr. 3 ppm NO Temperature: -20 °C to +40 °C Response Time t₉₀: 20 s
	0...1 ppm	NO-1-EC	211315/ -----	<ul style="list-style-type: none"> Lifetime: appr. 2 years Cross sensitivities: <ul style="list-style-type: none"> 10 ppm H₂S → appr. 3 ppm NO 20 ppm HCl → appr. 10 ppm NO 20 ppm HBr → appr. 5 ppm NO 5 ppm O₃ → appr. 1 ppm NO 10 ppm NO₂ → appr. 3 ppm NO Temperature: -20 °C to +40 °C Response Time t₉₀: 20 s
Nitrous Oxide (N ₂ O)	0...1 % (v/v) (10000 ppm)	N2O-1-IR2	211253/ 251067	<ul style="list-style-type: none"> Temperature: -25 °C to +55 °C Response Time t₉₀: 30 s
	0...1000 ppm	N2O-1000-IR3	211327/ 251092	<ul style="list-style-type: none"> Temperature: -25 °C to +55 °C Response Time t₉₀: 30 s
Nonane, n- (C ₉ H ₂₀)				see: Flammable Gases
Octane, n- (C ₈ H ₁₈)				see: Flammable Gases

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/Remarks
Oxygen (O ₂)	0...25 % (v/v)	O2-25-KE	211218/ 251012	<ul style="list-style-type: none"> Main applications: monitoring of ambient air, inertisation, gas analysis, e. g. biogas and landfill gas Lifetime: appr. 5 years (longlife) Hydrocarbons, e. g. CH₄, as well as Carbon Monoxide, Carbon Dioxide, Hydrogen, Chlorine and inert gases don't interfere. Indication is proportional to the oxygen partial pressure, that means fluctuations of the ambient pressure lead to changes. High concentrations of ammonia in the measured gas (> 100 ppm NH₃) may reduce lifetime of the sensor. Ozone (O₃) may influence sensitivity of the sensor and may affect sensor materials During operation sensor opening has definitely to be placed downwards. Temperature: +5 °C to +40 °C, -10 °C to +5 °C: Measuring signal up to 10 % lower than at +20 °C Response Time t₉₀: 20 s (operation by means of aspiration: 10 s) Dimensions of type Sens: 188 mm x 105 mm x 65 mm
	0...25 % (v/v)	O2-25-EC	211208/ 251007	<ul style="list-style-type: none"> Main application monitoring of ambient air Lifetime: appr. 2 years, reduced by operation in Carbon Dioxide. Temperature: -20 °C to +50 °C Response Time t₉₀: 20 s
	0...25 % (v/v)	Paramagnetic		<ul style="list-style-type: none"> Special version on demand Operation only in sampling systems, e. g. ExTox IMC Measuring ranges from 5 to 100 % (v/v) possible
	0...25 % (v/v)	O2-25-ZrO2	211282/ -----	<ul style="list-style-type: none"> Special version on demand Measuring principle: Zirconium oxide-sensor
	0...200 ppm	O2-200-EC	211280/ 251070	<ul style="list-style-type: none"> Operation in sampling systems, e. g. ExTox IMC Lifetime: appr. 2 years (inert operation) Cross sensitivities: H₂S, SO₂ impossible to quantify Temperature: -30 °C to +40 °C Response Time t₉₀: 20 s
Ozone (O ₃)	0...1 ppm	O3-1-EC	211211/ -----	<ul style="list-style-type: none"> Lifetime: appr. 1...2 years Warning device, limited measuring accuracy Cross sensitivities: <ul style="list-style-type: none"> 20 ppm SO₂ → appr. -0.2 ppm O₃ (!) 10 ppm NO₂ → appr. 5 ppm O₃ 20 ppm H₂S → appr. 2 ppm O₃ 1 ppm Cl₂ → appr. 1.5 ppm O₃ 1 ppm F₂ → appr. 1 ppm O₃ NH₃, N₂H₄ negative reponse (!) F₂, Br₂, I₂ (impossible to quantify) At longer application of Hydrogen Sulphide the sensor gets insensitive. Before calibration ll parts which are in touch with gas have to be rinsed with test gas for minimum 30 min. An adjustment with Ozone is impossible under usual operation conditions due to its high reactivity. Calibration with replacement gas Chlorine. At place of installation a functional test can only be done with Chlorine Temperature: -20 °C to +40 °C Response Time t₉₀: 30 s

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/ Remarks
Pentane, n- (C ₅ H ₁₂)				see: Flammable Gases
Phosphorous Trichloride (PCl ₃)				see: Hydrogen Chloride
Phosgene/ Carbonyl Chloride (COCl ₂)	0...1 ppm	COCl2-1-EC	211259/ -----	<ul style="list-style-type: none"> ▪ Lifetime: appr. 1...2 years ▪ Cross sensitivities: 0.2 ppm AsH₃ → appr. 0.2 ppm COCl₂ 0.5 ppm Cl₂ → appr. 0.2 ppm COCl₂ 10 ppm HCl → appr. 25 ppm COCl₂ 0.3 ppm O₃ → appr. -0.03 ppm COCl₂(!) 10 ppm NO₂ → appr. -1 ppm COCl₂ (!) 1 ppm ClO₂ → appr. -3 ppm COCl₂ (!) H₂S (prefilter, after penetration indication which cannot be quantized) ▪ Warning device, limited measuring accuracy ▪ An adjustment with Ozone is impossible under usual operation conditions. Calibration with replacement gas Chlorine. ▪ At place of installation a functional test can only be done with Chlorine ▪ Temperature: -20 °C to +40 °C ▪ Response Time t₉₀: 120 s, t₅₀: 60 s
Phosphine (PH ₃)	0...1 ppm	PH3-1-EC	211234/ -----	<ul style="list-style-type: none"> ▪ Also suitable for measurement of other Hydride Gases ▪ Cross sensitivities: 5 ppm SiH₄ → appr. 1 ppm PH₃ 1 ppm GeH₄ → appr. 0.6 ppm PH₃ 1 ppm B₂H₆ → appr. 1.5 ppm PH₃ 2 ppm Cl₂ → appr. -0.5 ppm PH₃ (!) 5 ppm SO₂ → appr. 1 ppm PH₃ 5 ppm NO₂ → appr. -1 ppm PH₃ (!) 10 ppm H₂S → appr. 5 ppm PH₃ 20 ppm HCN → appr. 1 ppm PH₃ ▪ Calibration with replacement gas Silane ▪ High humidity may lead to reduction of indication and delayed response due to high solubility of the measured gas ▪ Temperature: -10 °C to +40 °C ▪ Response Time t₉₀: 30 s, t₅₀: 10 s
pH in fluid mediums	pH 0...14	pH-IS	291024	Separate Data Sheet
Pressure				see: Climatic Variables
Propane (C ₃ H ₈)				see: Flammable Gases
Propanol, 1- (C ₃ H ₇ OH)				see: Flammable Gases
Propanol, 2-, iso-, i-/ IPA (C ₃ H ₇ OH)				see: Flammable Gases
Propene/Propylene (C ₃ H ₆)				see: Flammable Gases
Propylene Oxide (C ₃ H ₆ O)				see: Flammable Gases
Refrigerants R...	0...5000 ppm (0,5 % (v/v)) down to 0...500 ppm	KM-1-HL	211213/ 251018	<ul style="list-style-type: none"> ▪ Main application: leakage detection for cooling agents containing hydrogen (e. g. R134a, R404a, R507, R152a, R22, R1234yf, ...) ▪ Measuring range limited for some refrigerants, e. g. R22 or R1234yf ▪ Warning device, measuring accuracy limited due to principle ▪ Temperature: -20 °C to +50 °C ▪ Response Time t₉₀: 60 s
	0...2000 ppm	KM-2000-IR	211324/ -----	<ul style="list-style-type: none"> ▪ Special version (low measuring range) ▪ Broadband-Sensor for R134a, R23, R32, R125, R404A, R407A, R 407F, R410A, R448A, R449A, R452A, R455A, R513A ▪ Temperature: -20 °C to +40 °C ▪ Response time t₉₀: 60 s ▪ Dimensions Type Sens: 188 mm x 105 mm x 65 mm

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/ Remarks
Refrigerants R... - continued -	0...5000 ppm	R1234yf-5000-IR3	211231/ -----	<ul style="list-style-type: none"> Temperature: -10 °C to +45 °C Response time t₉₀: 30 s Further refrigerants on request
	0...5000 ppm	R1234ze-5000-IR3	211235/ -----	<ul style="list-style-type: none"> Temperature: -10 °C to +45 °C Response time t₉₀: 30 s Further refrigerants on request
	0...1000 ppm	R1234ze-1000-IR	211325/ -----	<ul style="list-style-type: none"> Special version (low measuring range) Temperature: -20 °C to +40 °C Response time t₉₀: 60 s Dimensions Type Sens: 188 mm x 105 mm x 65 mm
	0...5000 ppm	R134A-5000-IR3	211230/ -----	<ul style="list-style-type: none"> Temperature: -10 °C to +45 °C Response time t₉₀: 30 s Further refrigerants on request
	0...2000 ppm	R134A-2000-IR	211291/ -----	<ul style="list-style-type: none"> Special version (low measuring range) Temperature: -20 °C to +40 °C Response time t₉₀: 60 s Dimensions Type Sens: 188 mm x 105 mm x 65 mm
	0...10000 ppm	R32-10000-IR	211237/ -----	<ul style="list-style-type: none"> Temperature: -10 °C to +45 °C Response time t₉₀: 30 s Further refrigerants on request
	0...5000 ppm	R404A-5000-IR3	211233/ -----	<ul style="list-style-type: none"> Temperature: -10 °C to +45 °C Response time t₉₀: 30 s Further refrigerants on request
	0...2000 ppm	R410A-2000-IR	211312/ -----	<ul style="list-style-type: none"> Special version (low measuring range) Temperature: -20 °C to +40 °C Response time t₉₀: 60 s Dimensions Type Sens: 188 mm x 105 mm x 65 mm
	0...1000 ppm	R507-1000-IR	211294/ -----	<ul style="list-style-type: none"> Special version (low measuring range) Temperature: -20 °C to +40 °C Response time t₉₀: 60 s Dimensions Type Sens: 188 mm x 105 mm x 65 mm
	0...2000 ppm	R513A-2000-IR	211323/ -----	<ul style="list-style-type: none"> Special version (low measuring range) Temperature: -20 °C to +40 °C Response time t₉₀: 60 s Dimensions Type Sens: 188 mm x 105 mm x 65 mm
Smoke Detector			297000	Separate Data Sheet
Smoke Detector (Ex Zone 1)			297005	Separate Data Sheet
Sulphur Dioxide (SO ₂)	0...2000 ppm	SO2-2000-EC	211340/ -----	▪
	0...1000 ppm	SO2-1000-EC	211284/ -----	<ul style="list-style-type: none"> Operation in sampling systems only, e. g. ExTox IMC Transmitter with extension of measuring range Cross sensitivities: <ul style="list-style-type: none"> 10 ppm NO₂ → appr. -10 ppm SO₂ (!) 10 ppm H₂S → appr. 10 ppm SO₂ Dimensions Type Sens: 188 mm x 105 mm x 65 mm Temperature: -20 °C to +50 °C Response Time t₉₀: 65 s Dimensions of type Sens: 188 mm x 105 mm x 65 mm
	0...100 ppm	SO2-100-EC	211285/ ---	As SO2-1000-EC
	0...20 ppm	SO2-20-EC	211217/ 251011	<ul style="list-style-type: none"> Cross sensitivities: <ul style="list-style-type: none"> 10 ppm NO₂ → appr. -10 ppm SO₂ (!) 10 ppm H₂S → appr. 10 ppm SO₂ 10 ppm HCN → appr. 5 ppm SO₂ 10 ppm HCl → appr. 2 ppm SO₂ Temperature: -20 °C to +50 °C Response time t₉₀: 45 s

Gas and Transmitter List

Target Gas	Standard Range	Transmitter	Article-No. Sens/ExSens	Type Specific Features/ Remarks
Sulphur Dioxide (SO ₂) - continued -	0...5 ppm	SO2-5-EC	211269/ -----	<ul style="list-style-type: none"> ▪ Cross sensitivities: 10 ppm NO₂ → appr. -15 ppm SO₂ (!) 10 ppm H₂S → appr. 10 ppm SO₂ ▪ Temperature: -20 °C to +50 °C ▪ Response time t₉₀: 45 s
Sulphur Hexafluoride (SF ₆)	0...2000 ppm	SF6-2000-IR	211322/ -----	<ul style="list-style-type: none"> ▪ Special version ▪ Temperature: -20 °C to +40 °C ▪ Response time t₉₀: 60 s ▪ Dimensions of type Sens: 188 mm x 105 mm x 65 mm
	0...1000 ppm	SF6-1000-IR	211277/ -----	As SF6-2000-IR
Silane (SiH ₄)	0...50 ppm	SiH4-50-EC	211233/ 251019	<ul style="list-style-type: none"> ▪ Also suitable for measurement of other hydride gases ▪ Cross sensitivities: 1 ppm AsH₃ → appr. 1 ppm SiH₄ 1 ppm GeH₄ → appr. 1 ppm SiH₄ 1 ppm PH₃ → appr. 2 ppm SiH₄ 1 ppm B₂H₆ → appr. 1.5 ppm SiH₄ 1 ppm ClO₂ → appr. 0.2 ppm SiH₄ 10 ppm SO₂ → appr. 5 ppm SiH₄ 10 ppm H₂S → appr. 5 ppm SiH₄ 10 ppm NO₂ → appr. -2.5 ppm SiH₄ (!) ▪ High humidity may lead to reduction of indication and delayed response due to high solubility of the measured gas ▪ Temperature: -20 °C to +40 °C ▪ Response Time t₉₀: 60 s
Silicium Tetrachloride (SiCl ₄)				See: hydrogen chloride
Styrol/ Styrene (C ₈ H ₈)	0...100 % LEL	C8H8-IR2	211270/	<ul style="list-style-type: none"> ▪ Operation in sampling systems, e. g. <i>Ex-Tox</i> IMC. ▪ Pay attention to adsorption at gas carrying components. ▪ Cross sensitivities: hydro carbons: impossible to quantize ▪ Temperature: -25 °C to +50 °C ▪ Response time t₉₀: 30 s
Temperature				See: Climatic variable
Toluene (C ₇ H ₈)				See: Flammable gases
Tetrahydrothiopene (C ₄ H ₈ S)	0...15 ppm (0...55 mg/m ³)	THT-15-EC2	211238/ -----	<ul style="list-style-type: none"> ▪ Main application: odouring of natural gas ▪ Cross sensitivities: 10 ppm C₄H₁₀S → appr. 10 ppm THT 100 ppm CO → appr. 2 ppm THT 100 ppm C₃H₈O → appr. 50 ppm THT H₂S and unsaturated hydrocarbons, e. g. C₂H₄ (impossible to quantize) ▪ Temperature: -10 °C to +40 °C ▪ Response Time t₉₀: 40 s
Xylene, o- (C ₈ H ₁₀)				See: Flammable gases

(Subject to Technical Changes)