

## 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 our *ExTox*-Homepage.
- 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, such as for example biogas or dump gas.
  - Transmitter ExSens ...-V-...: type with sealed sensor block for operation in sampling systems, for example *ExTox* IMC.
  - Transmitter Sens ...-P-...-IR: types including integrated pressure compensation
  - Transmitter Sens with stainless steel housing
- On demand the Standard-Measuring range can at factory-sided adjustment be varied in range of 50 to 200 %. Higher deviations on demand.

Measured Gas	Transmitter	Article-No. Sens/ExSens	Standard Range	Type Specific Features/ Remarks
Acetone (CH <sub>3</sub> COCH <sub>3</sub> )				see: Flammable Gases
Acetonitrile (CH <sub>3</sub> CN)				see: Ethylene Oxide
Acetylene (C <sub>2</sub> H <sub>2</sub> )				see: Flammable Gases
Ammonia (NH <sub>3</sub> )	NH <sub>3</sub> -3-WT	211202/ 251000	0...30000 ppm (3 %(v/v))	<ul style="list-style-type: none"> <li>Main application ammonia refrigerating plants: machine rooms (ambient air) and discharging lines (installation with pipe adapter) of ammonia refrigerating plants</li> <li>Temperature: -20 °C to +55 °C</li> <li>Response time t<sub>90</sub>: 20 s</li> </ul>
	NH <sub>3</sub> -1000-EC	211201/ 251010	0...1000 ppm	<ul style="list-style-type: none"> <li>Main application ammonia refrigerating plants: machine rooms, production and storage rooms (ambient air)</li> <li>Lifetime depends on application rate, basic load with ammonia at place of installation to be avoided.</li> <li>Cross sensitivities:                             <ul style="list-style-type: none"> <li>20 ppm H<sub>2</sub>S → ca. 2 ppm NH<sub>3</sub></li> <li>20 ppm SO<sub>2</sub> → ca. -40 ppm NH<sub>3</sub> (!)</li> </ul> </li> <li>Temperature: -20 °C to +40 °C</li> <li>Response time t<sub>90</sub>: 60 s</li> </ul>
	NH <sub>3</sub> -T-1000-EC	211220/ 251014	0...1000 ppm	<ul style="list-style-type: none"> <li>Main application ammonia refrigerating plants: machine rooms, production and storage rooms (ambient air)</li> <li>Lifetime depends on application rate, basic load with ammonia at place of installation to be avoided.</li> <li>Cross sensitivities:                             <ul style="list-style-type: none"> <li>100 ppm CO → ca. 100 ppm NH<sub>3</sub></li> <li>100 ppm H<sub>2</sub> → ca. 100 ppm NH<sub>3</sub></li> <li>20 ppm H<sub>2</sub>S → ca. 40 ppm NH<sub>3</sub></li> <li>20 ppm SO<sub>2</sub> → ca. 5 ppm NH<sub>3</sub></li> </ul> </li> <li>Alcohol and amines</li> <li>Temperature: -40 °C to +40 °C (low temperature application)</li> <li>Response time t<sub>90</sub>: 90 s</li> </ul>
	NH <sub>3</sub> -1000-HL2	211303/ 251073	0...1000 ppm	<ul style="list-style-type: none"> <li>Main application ammonia refrigerating plants: machine room (ambient air)</li> <li>Warning device, measuring accuracy limited due to measuring principle</li> <li>Temperature: -20 °C to +55 °C</li> <li>Response time t<sub>90</sub>: 60 s</li> </ul>
	NH <sub>3</sub> -100-EC2	211296/ 251071	0...100 ppm	<ul style="list-style-type: none"> <li>Main application work places (ambient air)</li> <li>Lifetime depends on application rate, basic load with ammonia at place of installation to be avoided.</li> <li>Cross Sensitivities:                             <ul style="list-style-type: none"> <li>20 ppm H<sub>2</sub>S → ca. 2 ppm NH<sub>3</sub></li> <li>20 ppm SO<sub>2</sub> → ca. -40 ppm NH<sub>3</sub> (!)</li> </ul> </li> <li>Temperature: -20 °C to +40 °C</li> <li>Response time t<sub>90</sub>: 60 s</li> </ul>

# Gas and Transmitter List

Measured Gas	Transmitter	Article-No. Sens/ExSens	Standard Range	Type Specific Features/ Remarks
Ammonia (NH <sub>3</sub> ) in fluid medium	NH <sub>3</sub> -20-IS	291015, 291054/ -----	0...20 ppm in brine	<ul style="list-style-type: none"> <li>Main application ammonia refrigerating plants: brine and cooling water circuits, basins</li> <li>separate Data Sheet</li> </ul>
Argon (Ar)				Can only be measured by means of oxygen deficiency
Arsine (AsH <sub>3</sub> )				see: Hydride Gases (Silane, Phosphine)
Benzol (C <sub>6</sub> H <sub>6</sub> )				see: Flammable Gases
Boron Trichloride (BCl <sub>3</sub> )				see: Hydrogen Chloride
Boron Trifluoride (BF <sub>3</sub> )				see: Hydrogen Fluoride
Butane, n-/Isobutane (C <sub>4</sub> H <sub>10</sub> )				see: Flammable Gases
Butane-1-ol (C <sub>4</sub> H <sub>9</sub> OH)				see: Flammable Gases
Butane-2-ol (C <sub>4</sub> H <sub>9</sub> OH)				see: Flammable Gases
Butanone (CH <sub>3</sub> COC <sub>2</sub> H <sub>5</sub> )				see: Flammable Gases
Butylacetate (CH <sub>3</sub> COOC <sub>4</sub> H <sub>9</sub> )				see: Flammable Gases
Carbon Dioxide (CO <sub>2</sub> )	CO2-100-IR2	211226/ 251031	0...100 % (v/v)	<ul style="list-style-type: none"> <li>Main application Gas Analysis, for example biogas and dump gas</li> <li>Operation in sampling systems, for example ExTox IMC</li> <li>above 50 % (v/v) measuring accuracy is limited</li> <li>Temperature: -10 °C to +55 °C</li> <li>Response Time t<sub>90</sub>: 25 s (operation by means of aspiration: 10 s)</li> </ul>
	CO2-10000-IR3	211292/ -----	0...10000 ppm (0...10 % (v/v))	<ul style="list-style-type: none"> <li>Temperature: -0 °C to +45 °C</li> <li>Response Time t<sub>90</sub>: 25 s</li> </ul>
	CO2-5-IR2	211236/ 251016	0...5 % (v/v)	<ul style="list-style-type: none"> <li>Temperature: -10 °C to +55 °C</li> <li>Response Time t<sub>90</sub>: 25 s</li> </ul>
	CO2-T-5-IR2	211241/ 251051	0...5 % (v/v)	<ul style="list-style-type: none"> <li>Temperature: -25 °C to +55 °C (low temperature application)</li> <li>Response Time t<sub>90</sub>: 25 s</li> </ul>
	CO2-5000-IR2	211237/ 251021	0...5000 ppm	<ul style="list-style-type: none"> <li>Temperature: -10 °C to +55 °C</li> <li>Response Time t<sub>90</sub>: 25 s</li> </ul>
	CO2-500-IR3	211261/ -----	0...500 ppm	<ul style="list-style-type: none"> <li>Temperature: -0 °C to +45 °C</li> <li>Response Time t<sub>90</sub>: 25 s</li> </ul>
Carbon Monoxide (CO)	IR-Absorption	293007	0...100 % (v/v)	<ul style="list-style-type: none"> <li>Special version (gas card)</li> <li>Operation <u>only</u> in sampling systems, for example ExTox IMC</li> </ul>
	IR-Absorption	293006	0...35 % (v/v)	<ul style="list-style-type: none"> <li>Special version (gas card)</li> <li>Operation <u>only</u> in sampling systems, for example ExTox IMC</li> </ul>
	CO-4-EC	211256/ -----	0...4 % (v/v) (40000 ppm)	<ul style="list-style-type: none"> <li>Cross sensitivities: 10000 ppm H<sub>2</sub> → ca. 10000 ppm CO 10000 ppm C<sub>2</sub>H<sub>4</sub> → ca. 1000 ppm CO</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 40 s</li> </ul>
	CO-2-IR-P	211278/ -----	0...2 % (v/v)	<ul style="list-style-type: none"> <li>Special version</li> <li>Operation <u>only</u> in sampling systems, for example ExTox IMC</li> <li>Dimensions Type Sens: 188 mm x 105 mm x 65 mm</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 30 s</li> </ul>
	CO-4000-EC	211230/ 251030	0...4000 ppm	<ul style="list-style-type: none"> <li>Cross sensitivities: 1000 ppm H<sub>2</sub> → ca. 600 ppm CO 1000 ppm C<sub>2</sub>H<sub>4</sub> → ca. 100 ppm CO</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 40 s</li> </ul>
	CO-300-EC	211205/ 251006	0...300 ppm	<ul style="list-style-type: none"> <li>Cross sensitivities: 100 ppm H<sub>2</sub> → ca. 540 ppm CO 100 ppm C<sub>2</sub>H<sub>4</sub> → ca. 75 ppm CO</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 40 s</li> </ul>

# Gas and Transmitter List

Measured Gas	Transmitter	Article-No. Sens/ExSens	Standard Range	Type Specific Features/ Remarks
Carbon Monoxide (CO) - continued -	CO-300-EC2	211309/ 251076	0...300 ppm	<ul style="list-style-type: none"> <li>H<sub>2</sub>-compensated</li> <li>Cross sensitivities: 100 ppm H<sub>2</sub> → ca. 0 ppm CO 100 ppm C<sub>2</sub>H<sub>4</sub> → ca. 75 ppm CO</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response time t<sub>90</sub>: 40 s</li> </ul>
Chlorine (Cl <sub>2</sub> )	Cl2-10-EC2	211298/ -----	0...10 ppm	<ul style="list-style-type: none"> <li>Cross sensitivities: 1 ppm Br<sub>2</sub> → ca. 1 ppm Cl<sub>2</sub> 1 ppm F<sub>2</sub> → ca. 0.4 ppm Cl<sub>2</sub> 1 ppm ClO<sub>2</sub> → ca. 0.5 ppm Cl<sub>2</sub> 10 ppm SO<sub>2</sub> → ca. 2 ppm Cl<sub>2</sub> 10 ppm NO<sub>2</sub> → ca. 2 ppm Cl<sub>2</sub></li> <li>All parts which are in touch with gas have to be rinsed with test gas for minimum 30 min. before calibration.</li> <li>Sens: Sensor protection cap made of Teflon</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 30 s</li> </ul>
Chlorine Dioxide (ClO <sub>2</sub> )	ClO2-1-EC2	211276/ -----	0...1 ppm	<ul style="list-style-type: none"> <li>Cross sensitivities: 1 ppm Cl<sub>2</sub> → ca. 0.6 ppm ClO<sub>2</sub> 20 ppm H<sub>2</sub>S → ca. -5 ppm ClO<sub>2</sub> (!) 0.5 ppm O<sub>3</sub> → ca. 1.5 ppm ClO<sub>2</sub></li> <li>All parts which are in touch with gas have to be rinsed with test gas for minimum 30 min. before calibration.</li> <li>Warning device, limited measuring accuracy</li> <li>An adjustment with Chlorine Dioxide is impossible under usual operation conditions. Calibration with replacement gas Chlorine.</li> <li>At place of installation a functional test can only be done with Chlorine</li> <li>Sensor protection cap made of Teflon</li> <li>Temperature: -20 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 120 s, t<sub>50</sub>: 20 s</li> </ul>
Climatic Variables: Temperature, Humidity, Pressure	TF	211265/ 251047	-40 to 120 °C, 0 to 100 % r.H.,	separate Data Sheet
	TFD	211255	-40 to 120 °C, 0 to 100 % r.H., 0 to 2000 hPa (mbar)	separate Data Sheet
Cooling Agents	KM-1-HL	211213/ 251018	0...5000 ppm (0,5 % (v/v))	<ul style="list-style-type: none"> <li>Main application: leakage detection for cooling agents containing hydrogen (for example R134a, R404a, R507, R152a, R22, ...)</li> <li>Warning device, Measuring accuracy limited due to principle</li> <li>Temperature: -20 °C to +50 °C</li> <li>Response Time t<sub>90</sub>: 60 s</li> </ul>
	R134-2000-IR	211291/ .....	0...2000 ppm	<ul style="list-style-type: none"> <li>Special version</li> <li>Temperature: -20 °C to +40 °C</li> <li>Response time t<sub>90</sub>: 60 s</li> </ul>
	R507-1000-IR	211294/ .....	0...1000 ppm	<ul style="list-style-type: none"> <li>Special version</li> <li>Temperature: -20 °C to +40 °C</li> <li>Response time t<sub>90</sub>: 60 s</li> </ul>
Diborane (B <sub>2</sub> H <sub>6</sub> )				see: Hydride Gases (Silane, Phosphine)
Diethyl Ether (C <sub>2</sub> H <sub>5</sub> OC <sub>2</sub> H <sub>5</sub> )				see: Flammable Gases
Dimethyl Ether (CH <sub>3</sub> OCH <sub>3</sub> )				see: Flammable Gases
Ethane (C <sub>2</sub> H <sub>6</sub> )				see: Flammable Gases
Ethanol (C <sub>2</sub> H <sub>5</sub> OH)				see: Flammable Gases
Ethine (C <sub>2</sub> H <sub>2</sub> )				see: Flammable Gases
				see: Flammable Gases

# Gas and Transmitter List

Measured Gas	Transmitter	Article-No. Sens/ExSens	Standard Range	Type Specific Features/ Remarks
Ethene/ Ethylene (C <sub>2</sub> H <sub>4</sub> )	C2H4-1000-EC	211240/ 251022	0...1000 ppm	<ul style="list-style-type: none"> <li>Cross sensitivities: 10 ppm H<sub>2</sub> → ca. 6 ppm C<sub>2</sub>H<sub>4</sub> 10 ppm H<sub>2</sub>S → ca. 25 ppm C<sub>2</sub>H<sub>4</sub> 10 ppm SO<sub>2</sub> → ca. 6 ppm C<sub>2</sub>H<sub>4</sub> 10 ppm NO → ca. 3 ppm C<sub>2</sub>H<sub>4</sub> 10 ppm NO<sub>2</sub> → ca. 6 ppm C<sub>2</sub>H<sub>4</sub> 10 ppm HCN → ca. 5 ppm C<sub>2</sub>H<sub>4</sub></li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 40 s</li> </ul>
Ethyl Acetate (CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub> )				see: Flammable Gases
Ethylene Oxide (C <sub>2</sub> H <sub>4</sub> O)	EO-100-EC	211219/ 251013	0...100 ppm	<ul style="list-style-type: none"> <li>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 (measured gas/air) and the absolute measuring accuracy only plays a subordinated role.</li> <li>Cross sensitivities (Selection): 100 ppm C<sub>2</sub>H<sub>6</sub>O → ca. 55 ppm C<sub>2</sub>H<sub>4</sub>O 100 ppm C<sub>7</sub>H<sub>8</sub>O → ca. 20 ppm C<sub>2</sub>H<sub>4</sub>O 100 ppm C<sub>4</sub>H<sub>8</sub>O → ca. 10 ppm C<sub>2</sub>H<sub>4</sub>O 100 ppm CO → ca. 40 ppm C<sub>2</sub>H<sub>4</sub>O (further gases: please contact ExTox on demand)</li> <li>Calibration with replacement gas: please contact ExTox</li> <li>Temperature: -20 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 120 s</li> </ul>
Flammable Gases and Vapours	BG-100-IR2	211227/ 251024	0...100 % (v/v)	<ul style="list-style-type: none"> <li>Main application Gas Analysis Methane (CH<sub>4</sub>), for example biogas or dump gas</li> <li>Designed for measurement in the range of 40 to 60 % (v/v) CH<sub>4</sub></li> <li>Operation in sampling systems, for example ExTox IMC</li> <li>Temperature: -20 °C to +55 °C</li> <li>Response Time t<sub>90</sub>: 30 s (operation by means of aspiration: 10 s)</li> </ul>
	IR-Absorption	293000/ .....	0...100 % (v/v)	<ul style="list-style-type: none"> <li>Main application: gas analysis methane (CH<sub>4</sub>), gas feed-in systems</li> <li>Special version (Gascard)</li> <li>Operation in sampling systems, for example ExTox IMC</li> </ul>
	BG-100-90-IR2 / BG-V-100-90-IR2	211304/ 251074	0...100 % (v/v)	<ul style="list-style-type: none"> <li>Main application: Gas analysis Methane (CH<sub>4</sub>), for example biogas and dump gas</li> <li>Designed for measurement close to 100 % (v/v) CH<sub>4</sub></li> <li>Operation in sampling systems, for example ExTox IMC</li> <li>Temperature: -20 °C to +55 °C</li> <li>Response time t<sub>90</sub>: 30 s (operation by means of aspiration: 10 s)</li> </ul>
	BG-IR2	211216/ 251005	0...100 % LEL	<ul style="list-style-type: none"> <li>Main application: areas with danger of sensor poison (for example sewage plants), areas with oxygen reduction, areas with use of higher hydrocarbons</li> <li>Measuring gas: hydrocarbons (HC)</li> <li>Temperature: -20 °C to +55 °C</li> <li>Response Time t<sub>90</sub>: 30 s (operation by means of aspiration: 10 s)</li> </ul>
	BG-WT	211206/ 251001	0...100 % LEL	<ul style="list-style-type: none"> <li>Main application: all standard applications for explosion protection</li> <li>Measuring gases: all flammable gases</li> <li>Temperature: -25 °C to +55 °C</li> <li>Response Time t<sub>90</sub>: 15...60 s, depending on gas type</li> </ul>

Measured Gas	Transmitter	Article-No. Sens/ExSens	Standard Range	Type Specific Features/ Remarks
	BG-HL	211207/ 251004	0...100 % LEL	<ul style="list-style-type: none"> <li>Main application: monitoring of ambient air, for example heating</li> <li>Measuring gases: Hydrogen, Methane, Propane, Butane (other gases possible acc. to prior agreement with ExTox)</li> <li>Warning device, measuring accuracy limited due to principle</li> <li>Temperature: -25 °C to +55 °C</li> <li>Response Time <math>t_{90}</math>: 30...60 s, depending on gas type</li> </ul>
	BG-5000-HL	211215/ 251002	0...5000 ppm	<ul style="list-style-type: none"> <li>Main application: detection of leakages and vestiges</li> <li>Measuring gases: Hydrogen, Methane, Propane or Butane (other gases possible acc. to prior agreement with ExTox)</li> <li>Warning device, measuring accuracy limited due to principle</li> <li>Temperature: -25 °C to +55 °C</li> <li>Response Time <math>t_{90}</math>: 30...60 s, depending on gas type</li> </ul>
Fluorine (F <sub>2</sub> )	F2-10-EC	211258/ -----	0...10 ppm	As F2-1-EC, except Response Time $t_{90}$ : 90 s, $t_{50}$ : 40 s
	F2-1-EC	211228/ -----	0...1 ppm	<ul style="list-style-type: none"> <li>Warning device, limited measuring accuracy</li> <li>Lifetime: ca. 1...2 years</li> <li>Cross sensitivities:            0.2 ppm AsH<sub>3</sub> → ca. 1 ppm F<sub>2</sub>            0.5 ppm Cl<sub>2</sub> → ca. 0.7 ppm F<sub>2</sub>            0.5 ppm O<sub>3</sub> → ca. 0.6 ppm F<sub>2</sub>            0.3 ppm HCN → ca. -1 ppm F<sub>2</sub> (!)            0.5 ppm NO<sub>2</sub> → ca. -1 ppm F<sub>2</sub> (!)            0.5 ppm H<sub>2</sub>S → ca. -1 ppm F<sub>2</sub> (!)            Br<sub>2</sub>, PH<sub>3</sub> (impossible to quantize)         </li> <li>All parts which are in touch with gas have to be rinsed with test gas for minimum 30 min. before calibration.</li> <li>An adjustment with Fluorine is impossible under usual operation conditions. Calibration with replacement gas Chlorine.</li> <li>At place of installation a functional test can only be done with Chlorine</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time <math>t_{90}</math>: 90 s, <math>t_{50}</math>: 30 s</li> </ul>
Fuels (Mixture)				see: Flammable Gases
German (GeH <sub>4</sub> )				see: Hydride Gases (Silane, Phosphine)
Helium (He)				Can only be measured by means of oxygen deficiency
Heptane, n- (C <sub>7</sub> H <sub>16</sub> )				see: Flammable Gases
Hexane, n- (C <sub>6</sub> H <sub>14</sub> )				see: Flammable Gases
Humidity, relative				see: Climatic Variables
Hydride Gases				see: Silane, Phosphine
Hydrogen (H <sub>2</sub> )	H2-100-WLD	940364/ -----	0...100 % (v/v)	<ul style="list-style-type: none"> <li>Measuring principle: Thermal conductivity</li> <li>Main application gas analysis</li> <li>Operation in sampling systems, for example ExTox IMC</li> <li>Gas cooler required in case of changing humidity</li> <li>Measurement in binary gas mixtures only (Every additional component will affect the readings due to different thermal conductivity)</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time <math>t_{90}</math>: 30 s</li> </ul>
	H2-30-WLD	940345/ -----	0...30 % (v/v)	
	H2-10-WLD	940414/ -----	0...10 % (v/v)	
	BG-WT	211206/ 251001	0...100 % LEL	see: Flammable Gases
	BG-HL	211207/ 251004	0...100 % LEL	see: Flammable Gases

Measured Gas	Transmitter	Article-No. Sens/ExSens	Standard Range	Type Specific Features/ Remarks
Hydrogen (H <sub>2</sub> ) - continued -	H2-30-EC	211242/ .....	0...30 % (v/v)	<ul style="list-style-type: none"> <li>Operation only in sampling systems, for example ExTox IMC</li> <li>Transmitter with extension of measuring range</li> <li>Cross sensitivities: H<sub>2</sub>S, unsaturated hydrocarbons (impossible to quantify)</li> <li>Temperature: -20 °C to +40 °C</li> <li>Response time t<sub>90</sub>: 80 s</li> </ul>
	H2-2-EC	211229/ 251026	0...2 % (v/v)	<ul style="list-style-type: none"> <li>Cross sensitivities: 100 ppm H<sub>2</sub>S → ca. 200 ppm H<sub>2</sub> unsaturated hydrocarbons (impossible to quantize)</li> <li>Temperature: -20 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 60 s</li> </ul>
	H2-1-EC	211251/ -----	0...1 % (v/v)	<ul style="list-style-type: none"> <li>Maximum measuring range: 1 % H<sub>2</sub> (v/v)</li> <li>Cross sensitivities: 100 ppm CO → ca. 60 ppm H<sub>2</sub>, 10 ppm NO<sub>2</sub> → ca. -40 ppm H<sub>2</sub> (!), H<sub>2</sub>S: Filter with dose dependent life time, unsaturated hydrocarbons (impossible to quantize)</li> <li>Temperature: -20 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 60 s</li> </ul>
	BG-5000-HL	211215/ 251002	0...5000 ppm	see: Flammable Gases
	H2-1000-EC	211225/ 251017	0...1000 ppm	<ul style="list-style-type: none"> <li>Cross sensitivities: 10 ppm H<sub>2</sub>S → ca. 2 ppm H<sub>2</sub> 10 ppm H<sub>2</sub>S → ca. 2 ppm H<sub>2</sub> 10 ppm NO → ca. 3 ppm H<sub>2</sub> 10 ppm HCN → ca. 3 ppm H<sub>2</sub> 10 ppm C<sub>2</sub>H<sub>4</sub> → ca. 8 ppm H<sub>2</sub> unsaturated hydrocarbons (impossible to quantize)</li> <li>Temperature: -20 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 60 s</li> </ul>
	H2-1000-EC incl. Activated carbon filter	211243/ -----	0...1000 ppm	<ul style="list-style-type: none"> <li>Main application Biogas analysis</li> <li>Activated carbon filter for reduction of cross sensitivities</li> <li>Operation only in sampling systems, for example ExTox IMC</li> <li>Cross sensitivities: activated carbon filter have to be replaced depending on contamination, otherwise penetration takes place</li> <li>Temperature: -20 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 50 s</li> </ul>
Hydrogen Bromide (HBr)				see: Hydrogen Chloride
Hydrogen Chloride (HCl)	HCL-50-EC	211210/ -----	0...50 ppm	<ul style="list-style-type: none"> <li>Cross sensitivities: 1 ppm HBr → ca. 1 ppm HCl 20 ppm H<sub>2</sub>S → ca. 15 ppm HCl 20 ppm SO<sub>2</sub> → ca. 10 ppm HCl 20 ppm HCN → ca. 10 ppm HCl 100 ppm NO → ca. 45 ppm HCl 0.2 ppm As → ca. 0.8 ppm HCl 0.1 ppm PH<sub>3</sub> → ca. 0.8 ppm HCl</li> <li>All parts which are in touch with gas have to be rinsed with test gas for minimum 30 min. before calibration</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 90 s, t<sub>50</sub>: 40s</li> </ul>
Hydrochloric Acid Vapours (HCl)				see: Hydrogen Chloride

Measured Gas	Transmitter	Article-No. Sens/ExSens	Standard Range	Type Specific Features/ Remarks
Hydrogen Cyanide (HCN)	HCN-30-EC	211239/ -----	0...30 ppm	<ul style="list-style-type: none"> <li>Cross sensitivities: 50 ppm NO → ca. -3 ppm HCN (!) 20 ppm NO<sub>2</sub> → ca. -14 ppm HCN (!) 20 ppm H<sub>2</sub>S → ca. 40 ppm HCN (delayed)</li> <li>Temperature: -20 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 60 s</li> </ul>
Hydrogen Fluoride (HF)	HF-10-EC	211235/ -----	0...10 ppm	<ul style="list-style-type: none"> <li>Cross sensitivities: 1 ppm Cl<sub>2</sub> → ca. 0.7 ppm HF 20 ppm SO<sub>2</sub> → ca. 16 ppm HF 10 ppm HCl → ca. 6 ppm HF Fluoride (impossible to quantize)</li> <li>All parts which are in touch with gas have to be rinsed with test gas for minimum 30 min. before calibration.</li> <li>Calibration with replacement gas Hydrogen Chloride or Chlorine.</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 100 s, t<sub>50</sub>: 50 s</li> </ul>
Hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> )	H2O2-100-EC	211301/ -----	0...100 ppm	<ul style="list-style-type: none"> <li>Cross sensitivities: 10 ppm SO<sub>2</sub> → ca. 10 ppm H<sub>2</sub>O<sub>2</sub></li> <li>Temperature: -20 °C to +40 °C</li> <li>Response time t<sub>90</sub>: 60 s</li> </ul>
Hydrogen Sulphide (H <sub>2</sub> S)	H2S-5000-EC/ H2S-V-5000-EC	211297/ 251075	0...5000 ppm	<ul style="list-style-type: none"> <li>Main application gas analysis, for example biogas and dump gas</li> <li>Operation only in sampling systems, for example ExTox IMC</li> <li>Cross sensitivities: 10 ppm NO<sub>2</sub> → ca. -25 ppm H<sub>2</sub>S (!) 10 ppm Cl<sub>2</sub> → ca. -15 ppm H<sub>2</sub>S (!) 50 ppm NO → ca. 10 ppm H<sub>2</sub>S 20 ppm SO<sub>2</sub> → ca. 20 ppm H<sub>2</sub>S</li> <li>Temperature: -20 °C to +45 °C</li> <li>Response Time t<sub>90</sub>: 60 s</li> </ul>
	H2S-3000-EC/ H2S-V-3000-EC2	211224/ 251049	0...3000 ppm	<ul style="list-style-type: none"> <li>Main application gas analysis, for example biogas and dump gas</li> <li>Transmitter with extension of measuring range</li> <li>Operation in sampling systems, for example ExTox IMC</li> <li>Cross sensitivities: 1 % (v/v) H<sub>2</sub> → ca. 10...20 ppm H<sub>2</sub>S</li> <li>Dimensions Type Sens: 188 mm x 105 mm x 65 mm</li> <li>Temperature: -20 °C to +45 °C</li> <li>Response time t<sub>90</sub>: 60 s</li> </ul>
	H2S-100-EC	211212/ 251003	0...100 ppm	<ul style="list-style-type: none"> <li>Cross sensitivities: 5 ppm NO<sub>2</sub> → ca. -1 ppm H<sub>2</sub>S (!) 10 ppm HCN → ca. -1 ppm H<sub>2</sub>S (!) 5 ppm SO<sub>2</sub> → ca. 1 ppm H<sub>2</sub>S 1 % (v/v) ppm H<sub>2</sub> → ca. 15 ppm H<sub>2</sub>S</li> <li>Hydrogen Sulphide concentrations above the end value of measuring range may destroy the sensor already after a short time.</li> <li>Temperature: -40 °C to +45 °C</li> <li>Response Time t<sub>90</sub>: 60 s</li> </ul>
	H2S-100-EC-BIO	211289/ ---	0...100 ppm	<ul style="list-style-type: none"> <li>Main application gas analysis, for example biogas and dump gas</li> <li>Operation only in sampling systems, for example ExTox IMC</li> <li>Protection above Hydrogen Sulphide concentrations above the end value of measuring range up to ca. 500 ppm</li> <li>Cross sensitivities: 1 % (v/v) H<sub>2</sub> → ca. 15 ppm H<sub>2</sub>S</li> <li>Dimensions Type Sens: 188 mm x 105 mm x 65 mm</li> <li>Temperature: -40 °C to +45 °C</li> <li>Response Time t<sub>90</sub>: 60 s</li> </ul>



# Gas and Transmitter List

Measured Gas	Transmitter	Article-No. Sens/ExSens	Standard Range	Type Specific Features/ Remarks
Hydrogen Sulphide (H <sub>2</sub> S) - continued -	H2S-50-EC	211287	0...50 ppm	<ul style="list-style-type: none"> <li>Low cross sensitivity to H<sub>2</sub></li> <li>Cross sensitivities:            5 ppm NO<sub>2</sub> → ca. -1 ppm H<sub>2</sub>S (!)            10 ppm HCN → ca. -1 ppm H<sub>2</sub>S (!)            5 ppm SO<sub>2</sub> → ca. 1 ppm H<sub>2</sub>S            1 % (v/v) ppm H<sub>2</sub> → &lt; 5 ppm H<sub>2</sub>S         </li> <li>H<sub>2</sub>S concentrations above the end value of measuring range may destroy the sensor already after a short time.</li> <li>Temperature: -40 °C to +45 °C</li> <li>Response Time t<sub>90</sub>: 60 s</li> </ul>
IPA				see: Propanol
Isopropyl Acetate (CH <sub>3</sub> COOC <sub>3</sub> H <sub>7</sub> )				see: Flammable Gases
Kerosine (Mixture)				See: Flammable Gases
Laughing gas (N <sub>2</sub> O)				see: Nitrous Oxide
Methane (CH <sub>4</sub> )				see: Flammable Gases
Methanol (CH <sub>3</sub> OH)				see: Flammable Gases
Methyl Acetate (CH <sub>3</sub> COOCH <sub>3</sub> )				see: Flammable Gases
Methyl Ethyl Ketone/ MEK (CH <sub>3</sub> COC <sub>2</sub> H <sub>5</sub> )				see: Flammable Gases
Nitrogen (N <sub>2</sub> )				Can only be measured by means of oxygen deficiency
Nitrogen Oxide (NO <sub>x</sub> )				see Nitrogen Monoxide
Nitrogen Dioxide (NO <sub>2</sub> )	NO2-5000-EC	211293/ -----	0...5000 ppm	<ul style="list-style-type: none"> <li>Lifetime: ca. 2 years</li> <li>Temperature: -20 °C to +45 °C</li> <li>Response Time t<sub>90</sub>: 60 s</li> </ul>
	NO2-1000-EC	211223/ .....	0...1000 ppm	<ul style="list-style-type: none"> <li>Operation in sampling systems, for example ExTox IMC</li> <li>Transmitter with extension of measuring range</li> <li>Lifetime: ca. 2 years</li> <li>Cross sensitivities:            10 ppm H<sub>2</sub>S → ca. -1 ppm NO<sub>2</sub> (!)            10 ppm SO<sub>2</sub> → ca. -0.1 ppm NO<sub>2</sub> (!)            10 ppm Cl<sub>2</sub> → ca. 10 ppm NO<sub>2</sub> </li> <li>Dimensions Type Sens:            188 mm x 105 mm x 65 mm         </li> <li>Temperature: -20 °C to +45 °C</li> <li>Response Time t<sub>90</sub>: 60 s</li> </ul>
	NO2-20-EC	211222/ 251015	0...20 ppm	<ul style="list-style-type: none"> <li>Lifetime: ca. 2 years</li> <li>Cross sensitivities:            10 ppm H<sub>2</sub>S → ca. -1 ppm NO<sub>2</sub> (!)            10 ppm SO<sub>2</sub> → ca. -0.1 ppm NO<sub>2</sub> (!)            10 ppm Cl<sub>2</sub> → ca. 10 ppm NO<sub>2</sub> </li> <li>Temperature: -20 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 40 s</li> </ul>
Nitrogen Monoxide (NO)	NO-3000-EC	211275/ -----	0...3000 ppm	<ul style="list-style-type: none"> <li>Lifetime: ca. 2 years</li> <li>Cross sensitivities:            100 ppm NO<sub>2</sub> → ca. 1 ppm NO         </li> <li>Temperature: -20 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 30 s</li> </ul>
	NO-100-EC	211214/ 251008	0...100 ppm	<ul style="list-style-type: none"> <li>Can be used for sum measurement of NO<sub>x</sub></li> <li>Lifetime: ca. 2 years</li> <li>Cross sensitivities:            15 ppm SO<sub>2</sub> → ca. 5 ppm NO            10 ppm NO<sub>2</sub> → ca. 4 ppm NO            unsaturated hydrocarbons and hydrogen: impossible to quantize         </li> <li>Temperature: -20 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 30 s</li> </ul>
Nitrous Oxide (N <sub>2</sub> O)	N2O-1-IR2	211253/ 251067	0...1 % (v/v) (10000 ppm)	<ul style="list-style-type: none"> <li>Alarm levels from 0.05 % (v/v) (500 ppm) (Estimation based on most unfavourable operation conditions)</li> <li>Temperature: -25 °C to +55 °C</li> <li>Response Time t<sub>90</sub>: 30 s</li> </ul>
Nonane, n- (C <sub>9</sub> H <sub>20</sub> )				see: Flammable Gases
Octane, n- (C <sub>8</sub> H <sub>18</sub> )				see: Flammable Gases



# Gas and Transmitter List

Measured Gas	Transmitter	Article-No. Sens/ExSens	Standard Range	Type Specific Features/ Remarks
Oxygen (O <sub>2</sub> )	O2-25-KE	211218/ 251012	0...25 % (v/v)	<ul style="list-style-type: none"> <li>Main application monitoring of ambient air, inertisation, gas analysis, for example biogas and dump gas</li> <li>Lifetime: ca. 5 years (longlife)</li> <li>Hydrocarbons, for example CH<sub>4</sub>, as well as Carbon Monoxide, Carbon Dioxide, Hydrogen, Chlorine and inert gases don't interfere.</li> <li>Indication is proportional to the oxygen partial pressure, that means fluctuations of the ambient pressure lead to changes.</li> <li>High concentrations of ammonia in the measured gas (&gt; 100 ppm NH<sub>3</sub>) may reduce lifetime of the sensor.</li> <li>Ozone (O<sub>3</sub>) may influence sensitivity of the sensor and may affect sensor materials</li> <li>During operation sensor opening has definitely to be placed downwards.</li> <li>Temperature: +5 °C to +40 °C, -10 °C to +5 °C: Measuring signal up to 10 % lower than at +20 °C</li> <li>Response Time t<sub>90</sub>: 20 s (operation by means of aspiration: 10 s)</li> </ul>
	O2-25-EC	211208/ 251007	0...25 % (v/v)	<ul style="list-style-type: none"> <li>Main application monitoring of ambient air</li> <li>Lifetime: ca. 2 years, reduced by operation in Carbon Dioxide.</li> <li>Temperature: -20 °C to +50 °C</li> <li>Response Time t<sub>90</sub>: 20 s</li> </ul>
	Paramagnetic		0...25 % (v/v)	<ul style="list-style-type: none"> <li>Special version on demand</li> <li>Measuring range: 5 to 100 % (v/v) possible</li> <li>Operation <u>only</u> in sampling systems, for example ExTox IMC</li> </ul>
	O2-25-ZrO2	211282/ -----	0...25 % (v/v)	<ul style="list-style-type: none"> <li>Special version on demand</li> <li>Measuring principle: Zirconium oxide-sensor</li> </ul>
	O2-0.5-KE	211279/ -----	0...0.5 % (v/v)	<ul style="list-style-type: none"> <li>Operation in sampling systems only , for example ExTox IMC</li> <li>Lifetime: ca. 5 years (longlife)</li> <li>Temperature: +5 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 120 s</li> </ul>
	O2-200-EC	211280/ 251070	0...200 ppm	<ul style="list-style-type: none"> <li>Operation in sampling systems, for example ExTox IMC</li> <li>Lifetime: ca. 2 years (inert operation)</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 20 s</li> </ul>

# Gas and Transmitter List

Measured Gas	Transmitter	Article-No. Sens/ExSens	Standard Range	Type Specific Features/ Remarks
Ozone (O <sub>3</sub> )	O3-1-EC	211211/ .....	0...1 ppm	<ul style="list-style-type: none"> <li>Lifetime: ca. 1...2 years</li> <li>Warning device, limited measuring accuracy</li> <li>Cross sensitivities: <ul style="list-style-type: none"> <li>100 ppm NH<sub>3</sub> → ca. -3 ppm O<sub>3</sub> (!)</li> <li>20 ppm SO<sub>2</sub> → ca. -0.2 ppm O<sub>3</sub> (!)</li> <li>10 ppm NO<sub>2</sub> → ca. 5 ppm O<sub>3</sub></li> <li>20 ppm H<sub>2</sub>S → ca. 2 ppm O<sub>3</sub></li> <li>1 ppm Cl<sub>2</sub> → ca. 1.5 ppm O<sub>3</sub></li> <li>1 ppm F<sub>2</sub> → ca. 1 ppm O<sub>3</sub></li> </ul> </li> <li>At longer application of Hydrogen Sulphide the sensor gets insensitive.</li> <li>All parts which are in touch with gas have to be rinsed with test gas for minimum 30 min. before calibration.</li> <li>An adjustment with Ozone is impossible under usual operation conditions due to its high reactivity. Calibration with replacement gas Chlorine.</li> <li>At place of installation a functional test can only be done with Chlorine</li> <li>Temperature: -20 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 30 s</li> </ul>
Pentane, n- (C <sub>5</sub> H <sub>12</sub> )				see: Flammable Gases
Phosphorous Trichloride (PCl <sub>3</sub> )				see: Hydrogen Chloride
Phosgene/ Carbonyl Chloride (COCl <sub>2</sub> )	COCl2-1-EC	211259/ -----	0...1 ppm	<ul style="list-style-type: none"> <li>Lifetime: ca. 1...2 years</li> <li>Cross sensitivities: <ul style="list-style-type: none"> <li>0.2 ppm AsH<sub>3</sub> → ca. 0.2 ppm COCl<sub>2</sub></li> <li>0.5 ppm Cl<sub>2</sub> → ca. 0.2 ppm COCl<sub>2</sub></li> <li>10 ppm HCl → ca. 25 ppm COCl<sub>2</sub></li> <li>0.3 ppm O<sub>3</sub> → ca. 0.03 ppm COCl<sub>2</sub></li> <li>10 ppm NO<sub>2</sub> → ca. -1 ppm COCl<sub>2</sub> (!)</li> <li>1 ppm ClO<sub>2</sub> → ca. -3 ppm COCl<sub>2</sub> (!)</li> </ul> </li> <li>H<sub>2</sub>S (prefilter, after penetration indication which cannot be quantized)</li> <li>Warning device, limited measuring accuracy</li> <li>An adjustment with Ozone is impossible under usual operation conditions. Calibration with replacement gas Chlorine.</li> <li>At place of installation a functional test can only be done with Chlorine</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 120 s, t<sub>50</sub>: 60 s</li> </ul>
Phosphine (PH <sub>3</sub> )	PH3-1-EC	211234/ -----	0...1 ppm	<ul style="list-style-type: none"> <li>Also suitable for measurement of other Hydride Gases</li> <li>Cross sensitivities: <ul style="list-style-type: none"> <li>1 ppm SiH<sub>4</sub> → ca. 0.6 ppm PH<sub>3</sub></li> <li>1 ppm GeH<sub>4</sub> → ca. 0.6 ppm PH<sub>3</sub></li> <li>1 ppm AsH<sub>3</sub> → ca. 0.6 ppm PH<sub>3</sub></li> <li>1 ppm B<sub>2</sub>H<sub>6</sub> → ca. 0.6 ppm PH<sub>3</sub></li> <li>2 ppm Cl<sub>2</sub> → ca. -0.15 ppm PH<sub>3</sub> (!)</li> <li>10 ppm SO<sub>2</sub> → ca. 0.75 ppm PH<sub>3</sub></li> <li>5 ppm NO<sub>2</sub> → ca. -0.75 ppm PH<sub>3</sub> (!)</li> <li>20 ppm H<sub>2</sub>S → ca. 4 ppm PH<sub>3</sub></li> <li>20 ppm HCN → ca. 0.4 ppm PH<sub>3</sub></li> </ul> </li> <li>Calibration with replacement gas Silane</li> <li>High humidity may lead to reduction of indication and delayed response due to high solubility of the measured gas</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 30 s, t<sub>50</sub>: 10 s</li> </ul>
pH in fluid mediums	pH-IS	291024	pH 0...14	Separate Data Sheet
Pressure				see: Climatic Variables
Propane (C <sub>3</sub> H <sub>8</sub> )				see: Flammable Gases
Propanol, 1- (C <sub>3</sub> H <sub>7</sub> OH)				see: Flammable Gases

# Gas and Transmitter List

Measured Gas	Transmitter	Article-No. Sens/ExSens	Standard Range	Type Specific Features/ Remarks
Propanol, 2-, iso-, i-/IPA (C <sub>3</sub> H <sub>7</sub> OH)				see: Flammable Gases
Propene/Propylene (C <sub>3</sub> H <sub>6</sub> )				see: Flammable Gases
Propylene Oxide (C <sub>3</sub> H <sub>6</sub> O)				see: Flammable Gases
R... Refrigerants Cooling Agents( Mix- tures), containing hy- drogen				see: Cooling Agents
Smoke Detector		297000		Separate Data Sheet
Smoke Detector (Zone 0)		297005		Separate Data Sheet
Sulphur Dioxide (SO <sub>2</sub> )	SO2-1000-EC	211284	0...1000 ppm	<ul style="list-style-type: none"> <li>Operation in sampling systems only, for example ExTox IMC</li> <li>Transmitter with extension of measuring range</li> <li>Cross sensitivities: 10 ppm NO<sub>2</sub> → ca. -10 ppm SO<sub>2</sub> (!) 10 ppm H<sub>2</sub>S → ca. 10 ppm SO<sub>2</sub> 10 ppm HCN → ca. 5 ppm SO<sub>2</sub> 10 ppm HCl → ca. 2 ppm SO<sub>2</sub></li> <li>Dimensions Type Sens: 188 mm x 105 mm x 65 mm</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 45 s</li> </ul>
	SO2-20-EC	211217/ 251011	0...20 ppm	<ul style="list-style-type: none"> <li>Cross sensitivities: 10 ppm NO<sub>2</sub> → ca. -10 ppm SO<sub>2</sub> (!) 10 ppm H<sub>2</sub>S → ca. 10 ppm SO<sub>2</sub> 10 ppm HCN → ca. 5 ppm SO<sub>2</sub> 10 ppm HCl → ca. 2 ppm SO<sub>2</sub></li> <li>Temperature: -10 °C to +40 °C</li> <li>Response time t<sub>90</sub>: 45 s</li> </ul>
	SO2-5-EC	211269/ .....	0...5 ppm	<ul style="list-style-type: none"> <li>Measuring range 0...5 ppm and possible Alarm levels from 0.5 ppm for monitoring of work places.</li> <li>Cross sensitivities: 10 ppm NO<sub>2</sub> → ca. -15 ppm SO<sub>2</sub> (!) 10 ppm H<sub>2</sub>S → ca. 10 ppm SO<sub>2</sub> Temperature: -10 °C to +40 °C</li> <li>Response time t<sub>90</sub>: 45 s</li> </ul>
Sulphur Hexafluoride (SF <sub>6</sub> )	SF6-1000-IR	211277	0...1000 ppm	<ul style="list-style-type: none"> <li>Special version</li> <li>Temperature: -20 °C to +40 °C</li> <li>Response time t<sub>90</sub>: 60 s</li> </ul>
Silane (SiH <sub>4</sub> )	SiH4-50-EC	211233/ 251019	0...50 ppm	<ul style="list-style-type: none"> <li>Also suitable for measurement of other hydride gases</li> <li>Cross sensitivities: 1 ppm AsH<sub>3</sub> → ca. 1 ppm SiH<sub>4</sub> 1 ppm GeH<sub>4</sub> → ca. 1 ppm SiH<sub>4</sub> 1 ppm PH<sub>3</sub> → ca. 2 ppm SiH<sub>4</sub> 1 ppm B<sub>2</sub>H<sub>6</sub> → ca. 0.4 ppm SiH<sub>4</sub> 1 ppm ClO<sub>2</sub> → ca. 0.2 ppm SiH<sub>4</sub> 10 ppm SO<sub>2</sub> → ca. 2 ppm SiH<sub>4</sub> 10 ppm NO<sub>2</sub> → ca. -1.5 ppm SiH<sub>4</sub> (!) H<sub>2</sub>S (impossible to quantize)</li> <li>High humidity may lead to reduction of indication and delayed response due to high solubility of the measured gas</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 60 s, t<sub>50</sub>: 10 s</li> </ul>
Silicium Tetrachloride (SiCl <sub>4</sub> )				See hydrogen chloride

# Gas and Transmitter List

Measured Gas	Transmitter	Article-No. Sens/ExSens	Standard Range	Type Specific Features/ Remarks
Styrol/ Vinylbenzol / Styrene/ Ethenylbenzol (C <sub>8</sub> H <sub>8</sub> )	C8H8-IR2	211270/ .....	0...100 % UEG	<ul style="list-style-type: none"> <li>Operation in sampling systems, for example <i>ExTox</i> IMC.</li> <li>Pay attention to adsorption at gas carrying components.</li> <li>Cross sensitivities: unsaturated hydro carbons: impossible to quantize</li> <li>Temperature: -25 °C to +55 °C</li> <li>Response time t<sub>90</sub>: 30 s</li> </ul>
Temperature				See: climatic variable
Toluol (C <sub>7</sub> H <sub>8</sub> )				See: flammable gases
Tetrahydrothiopene (C <sub>4</sub> H <sub>8</sub> S)	THT-15-EC	211238/ 251023	0...15 ppm (0...55 mg/m <sup>3</sup> )	<ul style="list-style-type: none"> <li>Main application: odorising of natural gas</li> <li>Cross sensitivities: 10 ppm C<sub>4</sub>H<sub>10</sub>S → ca. 10 ppm THT 100 ppm CO → ca. 2 ppm THT 100 ppm C<sub>3</sub>H<sub>8</sub>O → ca. 50 ppm THT H<sub>2</sub>S and unsaturated hydrocarbons, for example C<sub>2</sub>H<sub>4</sub> (impossible to quantize)</li> <li>Temperature: -10 °C to +40 °C</li> <li>Response Time t<sub>90</sub>: 30 s</li> </ul>
Water Detector				separate Data Sheet
Xylol, o- (C <sub>8</sub> H <sub>10</sub> )				See: flammable gases

(Subject to Technical Changes)