Gas Detection.

Technical Datasheet

PolyGard®

Sensor head SC

with Electrochemical Sensor Element
for Toxic Gases or Oxygen

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Made
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DESCRIPTION

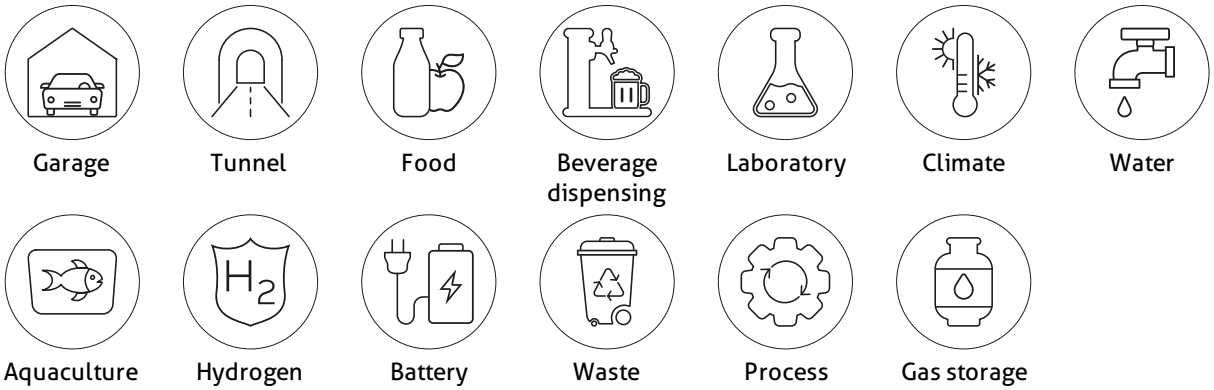
Electrochemical sensor head including digital value processing and integrated self-diagnosis, for the continuous monitoring of the ambient air to detect toxic gases or oxygen.

The intelligent SC sensor head for detection of combustible gases or oxygen monitoring includes an electrochemical cell and electronics with a measuring amplifier and a µController for the digital processing of the measured values. All relevant data and measured values of the sensor head are stored fail-safe in the internal memory of the µProcessor and are transmitted digitally to the Board (SB, WSB, MSC) via the MSR local bus.

The maintenance of a device can be done either by simply exchanging the sensor head or by using the integrated, comfortable calibration routine directly at the system.

APPLICATION

The PolyGard® sensor head SC is used to detect toxic gases or to monitor the oxygen content in the ambient air.



FEATURES

- Digital measurement value processing incl. temperature compensation
- Internal functional control with integrated Watchdog
- Easy maintenance and calibration by exchange of the sensor head or by comfortable on-site calibration
- High accuracy, selectivity and reliability
- Low zero-point drift
- Sensor head with long life expectancy (depending on gas type)
- Hardware and software according to SIL compliant development process
- Reverse polarity protected, overload and short-circuit proof
- IP65 protection (when installed)

SPECIFICATIONS

ELECTRICAL		
Power supply	5 V DC from Board (SB/WSB/MSC), reverse polarity protected	
Power consumption:	10 mA, max. (0.05 VA)	
Serial interface local bus	1-wire / 19200 Baud	
SENSOR ELEMENT		
Gas type and measuring range	See ORDERING INFORMATION	
Measuring principle	Electrochemical	
Poisoning	Electrochemical sensor head elements are susceptible to poisoning by organic solvents.	
RECOMMENDED STORAGE CONDITIONS		
Storage temperature range[1]	See following tables	
Storage time[1]	Ca. 6 months	
Humidity range / pressure range	See following tables	
PHYSICAL		
Housing	**Plastic**	**Stainless steel**
Material	Polycarbonate	CrNi steel: 1.4404
Flammability classification	UL 94 V2	-
Housing colour	Similar to RAL 7035 (light grey)	Natural
Dimensions (Ø x H)	Type L: 24 x 30 mm (0.94 x 1.18 in.)	Type S: 30 x 61 mm (1.18 x 2.40 in.)
Weight	Ca. 30 g	Ca. 150 g
Protection class	IP65	IP64
Mounting	Screw mounting, external thread M25 x 1.5 mm	Screw mounting, external thread NPT ¾" ANSI/ B1.20.1 / M30 x 1,5 mm
Connection type	3-pin connector	
Cable length	Standard: Ca. 150 mm (5.91 in.) Cable extension (5, 10 and 15 m)	Cable extension (5, 10 and 15 m)
REGULATIONS		
Directives (only in connection with the Boards from MSR)	EMC Directives 2014/30/EU UL2075 (only for sensor head SC2-E1110-E-P-00) CE Compliance with: EN 378 EN IEC 62990-1 Type SM EN 50104 (for O_2) EN 50545 EN 50271 EN 61010-1 ANSI/UL 61010 1 CAN/CSA-C22.2 No. 61010-1	
Warranty	1 year on sensor heads (not if poisoned or overloaded)	

[1] If stocked for a longer period, we recommend checking the zero point and recalibrating if necessary.

Gas type	Order number	Measuring range[1]	Accuracy	Display resolution	Repeatability	Plastic housing		Stainless steel housing		Zero-point variation	Drift in air
						t_{90} time	Reaction time	t_{90} time	Reaction time		
	SC2-	ppm	± % sig.	ppm	< ± % sig.	≤ sec.	≤ sec.	≤ sec.	≤ sec.	± ppm	< % / month
CO	E1110-A	0–50	2	0.01	3	15	5	35	5	1	2
CO	E1110-C	0–150	2	0.1	5	10	5	40	5	4	0.4
CO	E1110-E	0–250	2	0.1	5	10	5	40	5	4	0.4
CO	E1110-F	0–300	2	0.1	5	10	5	40	5	4	0.4
CO	E1110-H	0–500	2	0.1	5	10	5	40	5	4	0.4
NH_3	E1125-A	0–100	5	0.1	10	120	5	200	10	5	2
NH_3	E1125-B	0–300	3	0.1	10	120	5	200	10	5	2
NH_3	E1125-C	0–500	3	0.1	10	120	5	200	10	5	2
NH_3	E1125-D	0–1000	3	1	10	120	5	200	10	10	2
NH_3	E1125-E	0–5000	2	1	5	30	5	170	10	100	2
NO	E1129-C	0–100	2	0.1	5	20	5	40	5	3	2
NO_2	E1130-A	0–10	5	0.01	2	25	5	-	-	0.2	2
NO_2	E1130-B	0–20	5	0.01	2	25	5	-	-	0.2	2
NO_2	E1130-C	0–30	5	0.01	2	25	5	-	-	0.2	2
NO_2	E1130-E	0–100	5	0.1	2	25	5	120	10	2	2
NO_2	E1130-F	0–5	5	0.001	2	25	5	-	-	0.1	2
CH_3OH	E1150-A	0–250	5	0.1	5	80	5	180	10	5	2
VOC	E1160-A	0–10	5	0.01	5	70	5	70	10	0.5	1
VOC	E1160-B	0–5	5	0.001	5	70	5	70	10	0.5	1
VOC	E1160-C	0–200	5	0.1	5	45	5	90	10	5	1
HCN	E1183-B	0–50	5	0.01	5	30	5	40	10	2	2
HCN	E1183-C	0–100	5	0.1	5	30	5	60	10	2	2
CH_2O	E1185-B	0–10	n.d.	0.01	5	60	5	-	-	0.2	2
HCl	E1186-D	0–20	5	0.01	5	60	5	60	15	0.5	2
C_2H_4	E1189-C	0–10	n.d.	0,01	5	150	5	-	-	0,5	5
C_2H_4	E1189-C	0–200	n.d.	0.1	5	120	5	-	-	5	5
O_3	E1190-A	0–5	n.d.	0.001	5	60	5	-	-	0.1	2
O_3	E1190-B	0–10	n.d.	0.01	5	60	5	-	-	0.2	2
O_3	E1190-C	0–1	n.d.	0.001	5	30	5	-	-	0.05	2
H_2O_2	E1191-A	0–10	n.d.	0.01	2	40	5	-	-	0.2	2
H_2O_2	E1191-B	0–1500	n.d.	1	2	40	5	-	-	15	2
Cl_2	E1193-C	0–10	n.d.	0.01	5	40	5	-	-	0.2	2
Cl_2	E1193-D	0–20	n.d.	0.01	5	40	5	-	-	0.2	2
H_2	E1194-A	0–1000	n.d.	1	5	70	5	90	10	10	2
SO_2	E1196-B	0–20	3	0.01	2	20	5	-	-	0.2	2
H_2S	E1197-A	0–50	3	0.01	2	25	5	70	10	1	2
H_2S	E1197-B	0–100	3	0.1	2	25	5	70	10	1	2
H_2S	E1197-C	0–200	3	0.1	2	30	5	45	10	2	2
H_2S	E1197-D	0–500	3	0.1	2	30	5	45	10	5	2
H_2S	E1197-E	0–1500	3	1	5	60	5	90	10	15	-
ETO	E1199-A	0–10	n.d.	0.01	5	150	10	-	-	1	2

[1] Exceeding the measuring range limit will include a risk of damaging the sensor head element.

Gas type	Order number	Measuring range[1]	Temperature range	Humidity range non-condensing	Pressure range	Storage temperature range[2]	Life time[3] in air	Relative gas density[4]	Calibration interval[5]
	SC2-	ppm	°C	% RH	kPa	°C	> years	Air = 1	Months
CO	E1110-A	0–50	-20 / +50	15–90	90-110	10-30	2	0.97	12
CO	E1110-C	0–150	-20 / +50	10–95	80-120	0-20	6	0.97	12
CO	E1110-E	0–250	-20 / +50	10–95	80-120	0-20	6	0.97	12
CO	E1110-F	0–300	-20 / +50	10–95	80-120	0-20	6	0.97	12
CO	E1110-H	0–500	-20 / +50	10–95	80-120	0-20	6	0.97	12
NH_3	E1125-A	0–100	-30 / +50	15–90	80-120	0-20	2	0.60	12
NH_3	E1125-B	0–300	-30 / +50	15–90	80-120	0-20	2	0.60	12
NH_3	E1125-C	0–500	-30 / +50	15–90	80-120	0-20	2	0.60	12
NH_3	E1125-D	0–1000	-30 / +50	15–90	80-120	0-20	2	0.60	12
NH_3	E1125-E	0–5000	-30 / +50	15–90	80-120	0-20	2	0.60	12
NO	E1129-C	0–100	-30 / +50	15–90	80-120	0-20	2	1.04	12
NO_2	E1130-A	0–10	-30 / +50	15–90	80-120	0-20	2	2.80	12
NO_2	E1130-B	0–20	-30 / +50	15–90	80-120	0-20	2	2.80	12
NO_2	E1130-C	0–30	-30 / +50	15–90	80-120	0-20	2	2.80	12
NO_2	E1130-E	0–100	-30 / +50	15–90	80-120	0-20	2	2.80	12
NO_2	E1130-F	0–5	-20 / +50	15–90	80-120	0-20	2	2.80	12
CH_3OH	E1150-A	0–250	-20 / +50	15–90	80–120	0–20	2	1.10	6
VOC	E1160-A	0–10	-40 / +55	15–95	80-120	0-20	3	-	12
VOC	E1160-B	0–5	-40 / +55	15–95	80-120	0-20	3	-	12
VOC	E1160-C	0–200	-40 / +55	15–95	80-120	0-20	3	-	12
HCN	E1183-B	0–50	-20 / +50	15–90	90-110	5-20	2	0.93	6
HCN	E1183-C	0–100	-20 / +50	15–90	90-110	5-20	2	0.93	6
CH_2O	E1185-B	0–10	-30 / +50	15–90	90-110	5-20	3	1.04	6
HCl	E1186-D	0–20	-20 / +50	15–90	90-110	5-20	2	1.27	6
C_2H_4	E1189-B	0-10	-40 / +50	15–90	90-110	5-20	2	0.97	6
C_2H_4	E1189-C	0–200	-30 / +50	15–90	90-110	5-20	2	0.97	6
O_3	E1190-A	0–5	-30 / +50	15–90	90-110	5-20	2	1.66	6
O_3	E1190-B	0–10	-30 / +50	15–90	90-110	5-20	2	1.66	6
O_3	E1190-B	0–1	-20 / +40	15-90	80-120	5-20	2	1,66	6
H_2O_2	E1191-A	0–10	-20 / +40	15–90	80-120	0-20	2	1.00[6]	6
H_2O_2	E1191-B	0–1500	-20 / +40	15–90	80-120	0-20	2	1.00[6]	6
Cl_2	E1193-C	0–10	-30 / +50	15–90	90-110	5-20	2	2.48	6
Cl_2	E1193-D	0–20	-30 / +50	15–90	90-110	5-20	2	2.48	6
H_2	E1194-A	0–1000	-20 / +50	15–90	90-110	10-30	2	0.07	12
SO_2	E1196-B	0–20	-30 / +50	15–90	80-120	0-20	2	2.73	6
H_2S	E1197-A	0–50	-30 / +50	15–90	80-120	0-20	2	1.19	6
H_2S	E1197-B	0–100	-30 / +50	15–90	80-120	0-20	2	1.19	6
H_2S	E1197-C	0–200	-30 / +50	15–90	80-120	0-20	2	1.19	6
H_2S	E1197-D	0–500	-30 / +50	15–90	80-120	0-20	2	1.19	6
H_2S	E1197-E	0–1500	-30 / +50	15–90	90-110	5-20	2	1.19	6
ETO	E1199-A	0–10	+10 / +30	15–90	90-110	5-20	2	1.56	12

[1] Exceeding the measuring range limit will include a risk of damaging the sensor head element.
[2] A deviating storage temperature can have a negative effect on sensitivity and service life.
[3] Expected service life for normal ambient conditions
[4] The recommended mounting height depends on the relative gas density of the type of gas to be monitored. Depending on the relative gas density (d), the following recommendation therefore applies:

d ≤ 0.85:	Mounting 0.3–0.5 m below the ceiling
0.85 < d < 1.15:	Mounting at 1.2–1.8 m height
d ≥ 1.15:	Mounting 0.3–0.5 m above the floor

[5] Manufacturer-recommended calibration intervals for normal environmental conditions.
[6] Relative vapour density

Gas type	Order number	Measuring range[1]	Accuracy	Display resolution	Repeatability	Plastic housing		Stainless steel housing		Zero-point variation	Drift in air
						t_{90} time	Reaction time	t_{90} time	Reaction time		
	SC2-	ppm	± % sig.	ppm	< ± % sig.	≤ sec.	≤ sec.	≤ sec.	≤ sec.	± ppm	< % / month
O_2	E1195-A2	0–25	2	0.01	2	15	5	40	10	n.d.	0.4
O_2	E1195-A3	0–25	2	0.01	2	15	5	40	10	n.d.	0.4
O_2	E1195-A5	0–25	2	0.01	2	15	5	40	10	n.d.	0.4
O_2	E1195-A7	0–25	2	0.01	2	15	5	40	10	n.d.	0.4

Gas type	Order number	Measuring range[1]	Temperature range	Humidity range non-condensing	Pressure range	Storage temperature range[2]	Life time[3] in air	Relative gas density[4]	Calibration interval[5]
	SC2-	% vol	°C	% RH	kPa	°C	> years	Air = 1	Months
O_2	E1195-A2	0–25	-40 / +50	5–95	80-120	0-20	2	1.11	6
O_2	E1195-A3	0–25	-40 / +50	5–95	80-120	0-20	3	1.11	6
O_2	E1195-A5	0–25	-40 / +50	15–90	80-120	0-20	5	1.11	12
O_2	E1195-A7	0–25	-40 / +50	15–90	80-120	0-20	7	1.11	12

[1] Exceeding the measuring range limit will include a risk of damaging the sensor head element.
[2] A deviating storage temperature can have a negative effect on sensitivity and service life.
[3] Expected service life for normal ambient conditions
[4] The recommended mounting height depends on the relative gas density of the type of gas to be monitored. Depending on the relative gas density (d), the following recommendation therefore applies:

d ≤ 0.85:	Mounting 0.3–0.5 m below the ceiling
0.85 < d < 1.15:	Mounting at 1.2–1.8 m height
d ≥ 1.15:	Mounting 0.3–0.5 m above the floor

[5] Manufacturer-recommended calibration intervals for normal environmental conditions.

CROSS SENSITIVITY[1] – SENSOR ELEMENT

Gas concentration of cross gas / reaction of sensor head

Gas type	Order number	Ammonia, NH_3	Chlorine, Cl_2	Ethanol, C_2H_6O	Ethylene, C_2H_4	Carbon dioxide, CO_2	Carbon monoxide, CO	Sulphur dioxide, SO_2	Hydrogen sulphide, H_2S	Nitrogen dioxide NO_2	Nitrogen monoxide, NO	Hydrogen, H_2
	SC2-		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CO	E1110-A	50/-0.5	15/0.0	200/<1.0	100/11.5	-	-	10/-0.1	15/0.5	10/-0.3	50/-3.0	100/8.5
CO	E1110-C	-	2/<0.5	-	-	-	-	-	25/0	20/<0.5	50/<10	100/<20
CO	E1110-E	-	2/<0.5	-	-	-	-	-	25/0	20/<0.5	50/<10	100/<20
CO	E1110-F	-	2/<0.5	-	-	-	-	-	25/0	20/<0.5	50/<10	100/<20
CO	E1110-H	-	2/<0.5	-	-	-	-	-	25/0	20/<0.5	50/<10	100/<20
NH_3	E1125-A	-	-	100/0	-	5000/0	500/0	20/-6	25/30	5/-7.5	50/0	100/0
NH_3	E1125-B	-	-	100/0	-	5000/0	500/0	20/-6	25/30	5/-5	50/0	100/0
NH_3	E1125-C	-	-	100/0	-	5000/0	500/0	20/-6	25/35	5/-5	50/0	100/0
NH_3	E1125-D	-	-	100/0	-	5000/0	500/0	20/-6	25/35	5/-5	50/0	100/0
NH_3	E1125-E	-	-	100/0	-	5000/0	500/0	20/-6	25/35	5/-5	50/0	100/0
NO	E1129-C	-	-	-	-	-	200/0	20/0	25/<10	20/0	-	-
NO_2	E1130-A	50/0	1/0.5	-	-	5000/0	300/0	20/0	15/<1	-	50/<-1	200/0
NO_2	E1130-B	50/0	1/0.5	-	-	5000/0	300/0	20/0	15/<1	-	50/<-1	200/0
NO_2	E1130-C	50/0	1/0.5	-	-	5000/0	300/0	20/0	15/<1	-	50/<-1	200/0
NO_2	E1130-E	50/0	1/0.5	-	-	5000/0	300/0	20/0	15/<1	-	50/<-1	200/0
NO_2	E1130-F	100/0	1/1	100/0	-	5000/0	300/0	20/0	10/-7~0	10/10	30/0	1000/0
CH_3OH	E1150-A	50/-4.6	100/-5.8	-	-	1000/0	20/8.5	20/6.7	20/12.3	10/4,8	10/11.8	1000/2.6
HCN	E1183-X[2]	-	-	-	100/0	-	100/~2	20/~38	15/~25	5/~-12	25/0	100/~2
CH_2O	E1185-B	-	-	30/1	-	-	100/<20	-	20/~20	-	-	100/5
HCl	E1186-D	80/0	20/<0.5	30/<0.3	100/0	-	1000/0	100/0	20/<40	20/-6	25/0	-
C_2H_4	E1189-B	-	-	30/21	-	-	10/6	-	-	-	-	-
C_2H_4	E1189-C	-	-	-	-	-	100/<60	-	-	-	-	-
O_3	E1190-X[2]	80/0	5/4	60/0	100/0	-	100/0	5/0	20/<-20	5/~5	50/0	100/0
O_3	E1190-C	-	1/1,2	-	-	-	100/0	4/-0,2	1/-0,2	8/4	-	300/0
H_2O_2	E1191-A	-	-	-	-	-	20/0,2	10/7.5	-	-	2/-0.5	-
H_2O_2	E1191-B	-	-	-	-	-	200/3	20/15	-	-	20/25	-
Cl_2	E1193-X[2]	80/0	-	60/0	100/0	-	300/0	5/0	20/<-20	20/~20	50/0	100/0
H_2	E1194-A	-	10/0	-	100/80	-	50/200	5/0	25/0	5/0	35/<10	-
O_2	E1195-XX[2]	-	-	-	-	-	-	-	-	-	-	-
SO_2	E1196-B	20/0	15/<1	-	50/<45	-	300/<1	-	25/<0.5	20/<-20	50/0–5	400/<1
H_2S	E1197-A	50/0	15/0	-	100/0	5000/0	100/<2	20/0	-	5/<0.5	50/<0.5	-
H_2S	E1197-B	50/0	15/0	-	100/0	5000/0	100/<2	20/0	-	5/<0.5	50/<0.5	-
H_2S	E1197-C	50/0	15/0	-	100/0	5000/0	100/<2	20/0	-	5/<0.5	50/<0.5	-
H_2S	E1197-D	50/0	15/0	-	100/0	5000/0	100/<2	20/0	-	5/<0.5	50/<0.5	-
H_2S	E1197-E	-	-	-	-	-	100/<5	20/4	-	-	-	100/<5
ETO	E1199-A	-	-	30/21	-	-	100/~20	-	20/~40	-	-	-

[1] The table does not claim to be complete. Other gases, too, can have an influence on the sensitivity. The mentioned cross sensitivity data are only reference values valid for new sensor heads.
[2] Cross sensitivity data valid for all measuring ranges of the sensor head.

CROSS SENSITIVITY[1] – SENSOR ELEMENT (VOC Sensors)

Gas concentration of cross gas / reaction of sensor head

Gas type	Order number	Ammonia, NH_3	Arsine, AsH_3	Hydrogen cyanide, HCN	Ethanol, C_2H_6O	Ethylene, C_2H_4	Ethylene oxide, C_2H_4O	Carbon dioxide, CO_2	Carbon monoxide CO	Methane, CH_4	Ozone, O_3	Phosphine, PH_3	Sulphur dioxide, SO_2	Nitrogen dioxide, NO_2	Hydrogen, H_2
	SC2-	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**%**	**ppm**	**%**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
VOC	E1160-X[2]	1/0	1/4	1/0.8	1/0.5	1/0	1/0.35	10/0	100/105	1/0	1/-0.5	1/3.75	1/0.6	1/-1.2	2000/625

[1] The table does not claim to be complete. Other gases, too, can have an influence on the sensitivity. The mentioned cross sensitivity data are only reference values valid for new sensor heads.
[2] Cross sensitivity data valid for all measuring ranges of the sensor head.

All specifications were collected under optimal test conditions.
We confirm compliance with the minimum requirements of the applicable standard.
The T 021 (DGUV-I-213-056) and T 023 (DGUV-I-213-057) as well as T 055 leaflets must be observed.

ORDERING INFORMATION

SC2-	E11XX-X(X)-	X-	XX	
			00 Without cable extension (standard) **XX** With cable extension: 05, 10, 15 (in m)	**Cable length**
		L	Sensor housing plastic long	
		S	Sensor housing stainless steel (only with cable extension)	**Sensor housing**
		Gas type		**Measuring range**
	E1110-A	Carbon monoxide, CO		0–50 ppm
	E1110-C	Carbon monoxide, CO		0–150 ppm
	E1110-E[1]	Carbon monoxide, CO		0–250 ppm
	E1110-F	Carbon monoxide, CO		0–300 ppm
	E1110-H	Carbon monoxide, CO		0–500 ppm
	E1125-A*	Ammonia, NH_3		0–100 ppm
	E1125-B*	Ammonia, NH_3		0–300 ppm
	E1125-C*	Ammonia, NH_3		0–500 ppm
	E1125-D*	Ammonia, NH_3		0–1000 ppm
	E1125-E*	Ammonia, NH_3		0–5000 ppm
	E1129-C	Nitrogen monoxide, NO		0–100 ppm
	E1130-A[2]	Nitrogen dioxide, NO_2		0–10 ppm
	E1130-B[2]	Nitrogen dioxide, NO_2		0–20 ppm
	E1130-C[2]	Nitrogen dioxide, NO_2		0–30 ppm
	E1130-E	Nitrogen dioxide, NO_2		0–100 ppm
	E1130-F[2]	Nitrogen dioxide, NO_2		0–5 ppm
	E1150-A	Methanol, CH_3OH		0–250 ppm
	E1160-A	VOC		0–10 ppm
	E1160-B	VOC		0–5 ppm
	E1160-C	VOC		0–200 ppm
	E1183-B	Hydrogen cyanide, HCN		0–50 ppm
	E1183-C	Hydrogen cyanide, HCN		0–100 ppm
	E1185-B[2]	Formaldehyde, CH_2O		0–10 ppm
	E1186-D	Hydrogen chloride, HCl		0–20 ppm
	E1189-B[2]	Ethylene, C_2H_4		0–10 ppm
	E1189-C[2]	Ethylene, C_2H_4		0–200 ppm
	E1190-A[2]	Ozone, O_3		0–5 ppm
	E1190-B[2]	Ozone, O_3		0–10 ppm
	E1190-C	Ozone, O_3		0–1 ppm
	E1191-A	Hydrogen peroxide, H_2O_2		0–10 ppm
	E1191-B	Hydrogen peroxide, H_2O_2		0–1500 ppm
	E1193-C[2]	Chlorine, Cl_2		0–10 ppm
	E1193-D[2]	Chlorine, Cl_2		0–20 ppm
	E1194-A	Hydrogen, H_2		0–1000 ppm
	E1195-A2	Oxygen, O_2, 2 years		0–25 % vol
	E1195-A3	Oxygen, O_2, 3 years		0–25 % vol
	E1195-A5	Oxygen, O_2, 5 years		0–25 % vol
	E1195-A7	Oxygen, O_2, 7 years		0–25 % vol
	E1196-B[2]	Sulphur dioxide, SO_2		0–20 ppm
	E1197-A	Hydrogen sulphide, H_2S		0–50 ppm
	E1197-B	Hydrogen sulphide, H_2S		0–100 ppm
	E1197-C	Hydrogen sulphide, H_2S		0–200 ppm
	E1197-D	Hydrogen sulphide, H_2S		0–500 ppm
	E1197-E	Hydrogen sulphide, H_2S		0–1500 ppm
	E1199-A[2]	Ethylene oxide, C_2H_4O		0–10 ppm

Gas type / Measuring range

* Only on request

[1] The sensor head with the order number SC2-E1110-E-P-00 is UL 2075 certified.

[2] Not in combination with stainless steel sensor housing

EXAMPLE

CO sensor head, measuring range 0–300 ppm, sensor head in plastic housing type L without cable extension (order number: SC2-E1110-F-L-00)

Accessory	Order number
Sensor protection cap	C2-Z1
Duct mounting kit	C2-Z2
Calibration adapter	C2-Z4, C2-Z4-A, C2-Z4-B, C2-Z4-C
Splash protection SplashGuard for sensor housing L	SG-PG
Remote-Kit	C2-Z11-XX

FURTHER MEASURING PRINCIPLES

MPS™:
Ammonia (NH_3), hydrogen (H_2)
➔ See data sheet DB_SC_MPS

Semiconductor:
Ammonia (NH_3), ethylene (C_2H_4)
➔ See data sheet DB_SC_HL

Catalytic:
Ammonia (NH_3), ethylene (C_2H_4), hydrogen (H_2), methanol (CH_3OH)
➔ See data sheet DB_SC_Ex

Documents

Catalog

YouTube