

Gas Detection.



Technical Datasheet



PolyGard®

Sensor SC2

with Electrochemical Sensor Element
for Toxic Gases or Oxygen

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DESCRIPTION

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

The intelligent SC2 Sensor for detection of combustible gases or oxygen monitoring includes an electrochemical cell and electronics with a measuring amplifier and a μ Controller for the digital processing of the measured values. All relevant data and measured values of the sensor are stored fail-safe in the internal memory of the μ Processor and are transmitted digitally to the Board (SB2, WSB2, MSC2, MSB2) via the MSR local bus.

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

APPLICATION

The PolyGard® Sensor SC2 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 or by comfortable on-site calibration
- High accuracy, selectivity and reliability
- Low zero-point drift
- Sensor 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 (SB2/WSB2/MSB2/MSB2), 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 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 P: 24 x 22 mm (0.94 x 0.87 in.) 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 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 sensors (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 No.	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 ₃ OH	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 ₂ O	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 ₂ H ₄	E1189-C	0-10	n.d.	0.01	5	150	5	-	-	0.5	5
C ₂ H 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 ₂ O ₂	E1191-A	0-10	n.d.	0.01	2	40	5	-	-	0.2	2
H ₂ O 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 ₂ S	E1197-A	0-50	3	0.01	2	25	5	70	10	1	2
H ₂ S	E1197-B	0-100	3	0.1	2	25	5	70	10	1	2
H ₂ S	E1197-C	0-200	3	0.1	2	30	5	45	10	2	2
H ₂ S	E1197-D	0-500	3	0.1	2	30	5	45	10	5	2
H ₂ S	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 element.

Gas type	Order No.	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 ₃ OH	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 ₂ O	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 ₂ H ₄	E1189-B	0-10	-40 / +50	15-90	90-110	5-20	2	0.97	6
C ₂ H 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 ₂ O ₂	E1191-A	0-10	-20 / +40	15-90	80-120	0-20	2	1.00 ⁶	6
H ₂ O 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 ₂ S	E1197-A	0-50	-30 / +50	15-90	80-120	0-20	2	1.19	6
H ₂ S	E1197-B	0-100	-30 / +50	15-90	80-120	0-20	2	1.19	6
H ₂ S	E1197-C	0-200	-30 / +50	15-90	80-120	0-20	2	1.19	6
H ₂ S	E1197-D	0-500	-30 / +50	15-90	80-120	0-20	2	1.19	6
H ₂ S	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 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 No.	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 No.	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 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 SENSITIVITY¹ – SENSOR ELEMENT

Gas concentration of cross gas / reaction of sensor

Gas type	Order No.	Ammonia, NH ₃	Chlorine, Cl ₂	Ethanol, C ₂ H ₆ O	Ethylene, C ₂ H ₄	Carbon dioxide, CO ₂	Carbon monoxide, CO	Sulphur dioxide, SO ₂	Hydrogen sulphide, H ₂ S	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 ₃ OH	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 ₂ O	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 ₂ H ₄	E1189-B	-	-	30/21	-	-	10/6	-	-	-	-	-
C ₂ H 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 ₂ O ₂	E1191-A	-	-	-	-	-	20/0,2	10/7.5	-	-	2/-0.5	-
H ₂ O 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 ₂ S	E1197-A	50/0	15/0	-	100/0	5000/0	100/<2	20/0	-	5/<0.5	50/<0.5	-
H ₂ S	E1197-B	50/0	15/0	-	100/0	5000/0	100/<2	20/0	-	5/<0.5	50/<0.5	-
H ₂ S	E1197-C	50/0	15/0	-	100/0	5000/0	100/<2	20/0	-	5/<0.5	50/<0.5	-
H ₂ S	E1197-D	50/0	15/0	-	100/0	5000/0	100/<2	20/0	-	5/<0.5	50/<0.5	-
H ₂ S	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 sensors.

² Cross sensitivity data valid for all measuring ranges of the sensor.

CROSS SENSITIVITY¹ – SENSOR ELEMENT (VOC Sensors)

Gas concentration of cross gas / reaction of sensor

Gas type	Order No.	Ammonia, NH ₃	Arsine, AsH ₃	Hydrogen cyanide, HCN	Ethanol, C ₂ H ₆ O	Ethylene, C ₂ H ₄	Ethylene oxide, C ₂ H ₄ O	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 sensors.

² Cross sensitivity data valid for all measuring ranges of the sensor.

All specifications were collected under optimal test conditions.

We confirm compliance with the minimum requirements of the applicable standard.

The T 021 (DGVU-I-213-056) and T 023 (DGVU-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 ¹	With cable extension: Cable length: 05, 10, 15 (in m)
				Cable length
		P		Sensor housing plastic (standard)
		L		Sensor housing plastic long (only with cable extension)
		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 ²		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 ³		Nitrogen dioxide, NO ₂	0–10 ppm
	E1130-B ³		Nitrogen dioxide, NO ₂	0–20 ppm
	E1130-C ³		Nitrogen dioxide, NO ₂	0–30 ppm
	E1130-E		Nitrogen dioxide, NO ₂	0–100 ppm
	E1130-F ³		Nitrogen dioxide, NO ₂	0–5 ppm
	E1150-A		Methanol, CH ₃ OH	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 ³		Formaldehyde, CH ₂ O	0–10 ppm
	E1186-D		Hydrogen chloride, HCl	0–20 ppm
	E1189-B ³		Ethylene, C ₂ H ₄	0–10 ppm
	E1189-C ³		Ethylene, C ₂ H ₄	0–200 ppm
	E1190-A ³		Ozone, O ₃	0–5 ppm
	E1190-B ³		Ozone, O ₃	0–10 ppm
	E1190-C		Ozone, O ₃	0–1 ppm
	E1191-A		Hydrogen peroxide, H ₂ O ₂	0–10 ppm
	E1191-B		Hydrogen peroxide, H ₂ O ₂	0–1500 ppm
	E1193-C ³		Chlorine, Cl ₂	0–10 ppm
	E1193-D ³		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 ³		Sulphur dioxide, SO ₂	0–20 ppm
	E1197-A		Hydrogen sulphide, H ₂ S	0–50 ppm
	E1197-B		Hydrogen sulphide, H ₂ S	0–100 ppm
	E1197-C		Hydrogen sulphide, H ₂ S	0–200 ppm
	E1197-D		Hydrogen sulphide, H ₂ S	0–500 ppm
	E1197-E		Hydrogen sulphide, H ₂ S	0–1500 ppm
	E1199-A ³		Ethylene oxide, C ₂ H ₄ O	0–10 ppm
				Gas type / Measuring range

* Only on request

¹ Cable extension only in combination with sensor housing plastic type L or sensor housing stainless steel type S

² The sensor with the order number SC2-E1110-E-P-00 is UL 2075 certified.

³ Not in combination with stainless steel sensor housing

EXAMPLE

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

ACCESSORY

Sensor protection cap (order number: C2-Z1)

Duct mounting kit (order number: C2-Z2)

Calibration adapter (order number: C2-Z4, C2-Z4-A, C2-Z4-B, C2-Z4-C)

Splash protection SplashGuard (order number: C2-Z5)

Remote-Kit (order number: C2-Z11-XX)

FURTHER MEASURING PRINCIPLES**MPS™:**

Ammonia (NH₃), Hydrogen (H₂)

→ See data sheet DB_SC2_MPS

**Semiconductor:**

Ammonia (NH₃), Ethylene (C₂H₄)

→ See data sheet DB_SC2_HL

**Catalytic:**

Ammonia (NH₃), Ethylene (C₂H₄), Hydrogen (H₂), Methanol (CH₃OH)

→ See data sheet DB_SC2_Ex



Documents



Catalog



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