

Technical Datasheet



PolyXeta®2
Sensor PX2-1 (Zone 1 and 2)
Sensor PX2-2 (Zone 2)

DESCRIPTION

APPLICATION

FEATURES

SPECIFICATIONS - GENERAL

SPECIFICATIONS - SENSOR ELEMENT

CROSS-SENSITIVITY - SENSOR ELEMENT

ELECTRICAL CONNECTION

ORDER INFORMATION



PX2 YouTube Video



Specifications subject to change without notice.

Up-to-date data sheets and user manuals can be found in the download area on www.msr-24.com.

PolyXeta® is a registered trademark of MSR-Electronic GmbH.

www.msr-electronic.de

for toxic gases





DESCRIPTION

Fixed PolyXeta®2 Gas Alarm Devices of the

PX2-1 series with Ex db protection for Zone 1 and 2

PX2-2 series with Ex nA protection only for Zone 2

designed for the continuous monitoring of the ambient air to detect toxic gases and vapours as well as of oxygen for use in the hazardous areas of zones 1 and 2 according to Directive 2014/34/EU.

Microprocessor based gas sensor with 4–20 mA / RS485 Modbus output signal, alarm and fault relays (all SIL2 certified) for monitoring the ambient air to detect oxygen and toxic gases and vapours by means of an electrochemical sensor element (el.ch.).

The calibration of sensors without LCD display is carried out via the calibration device STL06-PGX2 or the PC software PCE06-PGX2. Sensors with LCD display have an integrated calibration routine that is started from the outside by a permanent magnet without opening the housing. In case of an alarm or failure the backlight of sensors with LCD display changes from green to red.

APPLICATION

The PolyXeta®2 sensor is used in industrial areas like oil/gas industry, biogas plants, petrochemical industry, power plants etc. in Ex-Zone 1 (PX2-1) and/or 2 (PX2-2). The PolyXeta®2 sensor is also suitable for commercial areas like gas transfer stations etc. With the 4–20 mA / RS485-ModBus output signal the sensor is suitable for connection to the PolyGard®2 gas controller series by MSR-Electronic, as well as to any other controllers or automation devices. Optionally, the PolyXeta®2 sensor is also available with LCD display and relay output.

FEATURES

- ATEX and IEC Ex certificates MSR-Electronic for electrical Ex protection
- Metrological test & SIL2 safety functions 4-20 mA, RS485 and relay
- PX2-1 for zone 1 (and also suitable for zone 2):
 - Type "Ex db" with flame-proof enclosure
- PX2-2 for zone 2:
 - Type "Ex nA" with flame-proof enclosure
- Enclosure: additional CSA certificate for Class I, Div. 1
- Continuous monitoring
- Microprocessor with 12-bit converter resolution
- Self-monitoring system
- Easy calibration
- Calibration service by exchanging the sensor head
- Proportional 4–20 mA output
- Serial interface to the control center
- Reverse polarity protection
- Overload protection
- LCD display with status LEDs (optional)
- Alarm and fault signal relay (optional)



SPECIFICATIONS - GENERAL

Power consumption (at 24 V DC) Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional conditions Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω Proportional, overload and short-circuit proof, load ≤ 500 Ω	ELECTRICAL	
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Material CrNi Stahl: 1.4404 Dimensions (d x H) 30 x 56 mm (1.18 x 2.20 in.) Protection class Gas inlet IP64, with option splash proof IP65 (on request) External thread NPT ¾" ANSI/ B1.20.1 ENVIRONMENTAL CONDITIONS Humidity 20 to 90% RH (not condensing) Operating temperature -25 °C to +60 °C (-13 °F to 140 °F), -20 °C to +60 °C (-4 °F to 140 °F) for display version Storage temperature -5 °C to +30 °C (23 °F to 86 °F) Storage time¹ Max. 6 months Pressure range 800 to 1200 mbar (80 to 120 kPa) Air velocity 8 P3 / colour Aluminium pressure die-casting / light grey RAL 7032, epoxy coating Dimensions (d x H) / weight 95 x 82 mm / approx. 1.3 kg Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Mounting Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Wire connection Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12		Measuring mode after 120 sec.
Dimensions (d x H) Protection class Gas inlet IP64, with option splash proof IP65 (on request) External thread NPT ¾ " ANSI/ B1.20.1 ENVIRONMENTAL CONDITIONS Humidity Operating temperature -25 °C to +60 °C (-13 °F to 140 °F), -20 °C to +60 °C (-4 °F to 140 °F) for display version Storage temperature -5 °C to +30 °C (23 °F to 86 °F) Storage time¹ Max. 6 months Pressure range Air velocity PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class Mounting Mull mounting (sensor head downwards) Cable entry 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12	SENSOR HEAD HOUSING	
Protection class Gas inlet IP64, with option splash proof IP65 (on request) External thread NPT ¾ "ANSI/ B1.20.1 ENVIRONMENTAL CONDITIONS Humidity 20 to 90% RH (not condensing) -25 °C to +60 °C (-13 °F to 140 °F), -20 °C to +60 °C (-4 °F to 140 °F) for display version Storage temperature -5 °C to +30 °C (23 °F to 86 °F) Storage time¹ Max. 6 months Pressure range 800 to 1200 mbar (80 to 120 kPa) Air velocity PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Mounting Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Wire connection		
Thread External thread NPT ¾" ANSI/ B1.20.1 ENVIRONMENTAL CONDITIONS Humidity 20 to 90% RH (not condensing) Operating temperature -25 °C to +60 °C (-13 °F to 140 °F), -20 °C to +60 °C (-4 °F to 140 °F) for display version Storage temperature -5 °C to +30 °C (23 °F to 86 °F) Storage time¹ Max. 6 months Pressure range 800 to 1200 mbar (80 to 120 kPa) Air velocity <6 m/sec. PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Aluminium pressure die-casting / light grey RAL 7032, epoxy coating Dimensions (d x H) / weight 95 x 82 mm / approx. 1.3 kg Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Mounting Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Wire connection Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12		
Humidity Operating temperature -25 °C to +60 °C (-13 °F to 140 °F), -20 °C to +60 °C (-4 °F to 140 °F) for display version Storage temperature -5 °C to +30 °C (23 °F to 86 °F) Storage time¹ Max. 6 months Pressure range 800 to 1200 mbar (80 to 120 kPa) Air velocity PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Max resp. 3 x ¾ in. (Ansi B1.20.1) Wire connection Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12	Protection class	
Humidity Operating temperature -25 °C to +60 °C (-13 °F to 140 °F), -20 °C to +60 °C (-4 °F to 140 °F) for display version Storage temperature -5 °C to +30 °C (23 °F to 86 °F) Storage time¹ Max. 6 months Pressure range 800 to 1200 mbar (80 to 120 kPa) Air velocity PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Mounting Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Wire connection		External thread NPT 3/4" ANSI/ B1.20.1
Operating temperature -25 °C to +60 °C (-13 °F to 140 °F), -20 °C to +60 °C (-4 °F to 140 °F) for display version -5 °C to +30 °C (23 °F to 86 °F) Storage time¹ Max. 6 months Pressure range 800 to 1200 mbar (80 to 120 kPa) Air velocity PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Mounting Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Wire connection		
-20 °C to +60 °C (-4 °F to 140 °F) for display version Storage temperature -5 °C to +30 °C (23 °F to 86 °F) Storage time¹ Max. 6 months Pressure range 800 to 1200 mbar (80 to 120 kPa) Air velocity PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Mounting Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Wire connection		
Storage temperature -5 °C to +30 °C (23 °F to 86 °F) Max. 6 months Pressure range 800 to 1200 mbar (80 to 120 kPa) Air velocity -6 m/sec. PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class Mounting Mounting Cable entry Aluminium pressure die-casting / light grey RAL 7032, epoxy coating 95 x 82 mm / approx. 1.3 kg Housing protection IP66 to IP68 (depending on the cable glands used) Wall mounting (sensor head downwards) 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12	Operating temperature	
Storage time ¹ Max. 6 months Pressure range 800 to 1200 mbar (80 to 120 kPa) Air velocity PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class Mounting Max. 6 months 800 to 1200 mbar (80 to 120 kPa) Aluminium pressure die-casting / light grey RAL 7032, epoxy coating 95 x 82 mm / approx. 1.3 kg Housing protection IP66 to IP68 (depending on the cable glands used) Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Wire connection Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12		
Pressure range 800 to 1200 mbar (80 to 120 kPa) Air velocity < 6 m/sec. PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Aluminium pressure die-casting / light grey RAL 7032, epoxy coating Dimensions (d x H) / weight 95 x 82 mm / approx. 1.3 kg Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Mounting Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x 3/4 in. (Ansi B1.20.1) Wire connection Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12		·
Air velocity < 6 m/sec. PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Aluminium pressure die-casting / light grey RAL 7032, epoxy coating Dimensions (d x H) / weight 95 x 82 mm / approx. 1.3 kg Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x 3/4 in. (Ansi B1.20.1) Wire connection Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12	Storage time ¹	
PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Aluminium pressure die-casting / light grey RAL 7032, epoxy coating Dimensions (d x H) / weight 95 x 82 mm / approx. 1.3 kg Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Mounting Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x 3/4 in. (Ansi B1.20.1) Wire connection Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12		
Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Mounting Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Wire connection Aluminium pressure die-casting / light grey RAL 7032, epoxy coating 95 x 82 mm / approx. 1.3 kg Housing protection IP66 to IP68 (depending on the cable glands used) Wall mounting (sensor head downwards) 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12		·
Dimensions (d x H) / weight 95 x 82 mm / approx. 1.3 kg Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Mounting Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Wire connection Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12	Air velocity	·
Protection class Housing protection IP66 to IP68 (depending on the cable glands used) Mounting Wall mounting (sensor head downwards) 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Wire connection Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12	Air velocity PHYSICAL CHARACTERISTICS	< 6 m/sec.
Mounting Wall mounting (sensor head downwards) Cable entry 1 x resp. 3 x 3/4 in. (Ansi B1.20.1) Wire connection Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12	PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour	< 6 m/sec. Aluminium pressure die-casting / light grey RAL 7032, epoxy coating
Cable entry 1 x resp. 3 x ¾ in. (Ansi B1.20.1) Wire connection Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12	Air velocity PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight	< 6 m/sec. Aluminium pressure die-casting / light grey RAL 7032, epoxy coating 95 x 82 mm / approx. 1.3 kg
Wire connection Spring-type terminal, 0.08 to 2.5 mm ² AWG 28-12	Air velocity PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class	< 6 m/sec. Aluminium pressure die-casting / light grey RAL 7032, epoxy coating 95 x 82 mm / approx. 1.3 kg Housing protection IP66 to IP68 (depending on the cable glands used)
	Air velocity PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class Mounting	< 6 m/sec. Aluminium pressure die-casting / light grey RAL 7032, epoxy coating 95 x 82 mm / approx. 1.3 kg Housing protection IP66 to IP68 (depending on the cable glands used) Wall mounting (sensor head downwards)
	Air velocity PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class Mounting Cable entry	< 6 m/sec. Aluminium pressure die-casting / light grey RAL 7032, epoxy coating 95 x 82 mm / approx. 1.3 kg Housing protection IP66 to IP68 (depending on the cable glands used) Wall mounting (sensor head downwards) 1 x resp. 3 x ³ / ₄ in. (Ansi B1.20.1)
Wire length Max. load 500 Ω (= wire resistance + controller input resistance)	Air velocity PHYSICAL CHARACTERISTICS Enclosure P1 & P3 / colour Dimensions (d x H) / weight Protection class Mounting Cable entry Wire connection	< 6 m/sec. Aluminium pressure die-casting / light grey RAL 7032, epoxy coating 95 x 82 mm / approx. 1.3 kg Housing protection IP66 to IP68 (depending on the cable glands used) Wall mounting (sensor head downwards) 1 x resp. 3 x ³ / ₄ in. (Ansi B1.20.1) Spring-type terminal, 0.08 to 2.5 mm² AWG 28-12

¹ We recommend recalibrating the devices if stocked for a longer period (> 8 weeks).



MARKING / CERTIFICATES	PX2-1	PX2-2
ATEX Marking		[™]II3G Ex nA IIC T4 Gc
EC-Type Examination Certificate	BVS 15 ATEX E 129 X	
Declaration of Conformity	CE_PX2-1_EX_1911	CE_PX2_2_Zone2_1808
Protection types	EN 60079-0: 2012 and	EN 60079-0: 2012 and
	EN 60079-1: 2014 (Ex-db)	EN 60079-15: 2011 (Ex-nA)
Measurement function	EN 60079-29-1 (pending)	
Certificates	IECEx BSV 16.0038 X (electrical Ex	
	protection), IEC 60079-0, -1 (Ex db)	
Functional safety SIL2	EN 50271: 2010; EN 50402: 2016 and l	EN 61508: 2011 (parts 1-3)
Certificates	CSA Certificate Class I, D	iv. 1 (only housing)
WARRANTY		

¹ year on sensor (not if poisoned or overloaded),

SPECIFICATIONS - SENSOR ELEMENT

Gas type	Ordering No.	Measuring range ³	Accuracy	Display Reso- lution	Repeatability	t90 Time	Zero-point variation	Zero Drift in	Gain ari	Temperature range	Humidity range (non- condensing)	Life time ¹ in air	Relative gas density	Mounting height²	Calibration interval ¹
	РХ2-Х-	ppm	± % sign.	ppm	<± % sig.	≤ sec.	±ppm	< % si month		°C	% RH.	> months	Air = 1	(m)	Months
														(m)	
NH_3	E1125-AX	0-100	5	0.1	10	40	5	1	1	-30 / +50	15-90	24	0.59	Ceiling	12
NH_3	E1125-BX		2	0.1	10	40	5	1	2	-30 / +50	15-90	24	0.59	Ceiling	12
NH ₃	E1125-CX	0-500	3	0.1	10	40	5	1	2	-30 / +50	15-90	24	0.59	Ceiling	12
NH_3	E1125-DX			1	10	40	10	1	2	-30 / +50	15-90	24	0.59	Ceiling	12
NH ₃	E1125-EX	0-5000	2	1	10	40	50	1	2	-30 / +50	15-90	24	0.59	Ceiling	12
HCl	E1186-DX	0-20	n.d.	0,01	5	50	0,5	n.d.	n.d.	-20 / +50	15-90	24	1,27	Floor	6
HCN	E1183-BX	0-50	5	0,01	2	35	n.d.	n.d.	n.d.	-20 / +50	15-90	24	0,93	Ceiling	6
HCN	E1183-CX	0-100	5	0,1	2	60	n.d.	n.d.	n.d.	-20 / +50	15-90	24	0,93	Ceiling	6
CO	E1110-BX	0-100	3	0.1	5	10	4	0.4	0.4	-15 / +50	10-95	72	0.97	1.5-1.8	12
CO	E1110-CX	0-150	2	0.1	5	10	4	0.4	0.4	-15 / +50	10-95	72	0.97	1.5-1.8	12
CO	E1110-EX	0-250	2	0.1	5	10	4	0.4	0.4	-15 / +50	10-95	72	0.97	1.5-1.8	12
CO	E1110-FX	0-300	2	0.1	5	10	4	0.4	0.4	-15 / +50	10-95	72	0.97	1.5-1.8	12
CO	E1110-HX		2	0.1	5	10	4	0.4	0.4	-15 / +50	10-95	72	0.97	1.5-1.8	12
H₂S	E1197-AX	0-50	3	0.01	2	30	0.5	1	2	-10 / +50	15-90	24	1.19	Floor	12
H₂S	E1197-BX	0-100	2	0.1	2	40	1	1	2	-10 / +50	15-90	24	1.19	Floor	12
H₂S	E1197-CX	0-200	2	0.1	2	40	2	1	2	-10 / +50	15-90	24	1.19	Floor	12
H₂S	E1197-DX	0-500	n.d.	0.1	2	40	5	1	2	-10 / +50	15-90	24	1.19	Floor	12
NO ₂	E1130-EX	0-100	5	0.1	2	25	2	1	2	-20 / +50	15-90	24	1.59	0.5-1.8	12
		V	ol %												
02	E1195-A2 /A3/A5/A7	0-25	2	0.01		15			0.3	-10 / +50	5-95	24 / 36 60 / 8 4		1.5-1.8	6 / 6 12/12

¹ Manufacturer-recommended calibration interval for normal environmental conditions

d < 0.95: Mount on the ceiling

0.95 < d < 1.05: Mount at a height of 1.5 – 1.8 m above floor

d > 1.05: Mount at a height of 0.3 m above floor

Exception NO₂: Mounting height for NO₂ sensors: 0.5 to 1.8 m above floor!

² years on device

² The sensor must be installed at the correct height depending on the relative gas density (d):

³ Exceeding the measuring range limit will include a risk of damaging the sensor element.



CROSS SENSITIVITY1 - SENSOR ELEMENT

Illustration: Gas concentration of cross gas / reaction of sensor

Gas type	Ordering No.	Chlorine, Cl ₂	Ethanol, C ₂ H ₆ O	Ethylene, C₂H₄	Carbon mon- oxide, CO	Carbon diox- ide, CO ₂	Sulphur di- oxide, SO ₂	Hydrogen sulphide, H ₂ S	Nitrogen di- oxide NO ₂	Nitrogen monoxide,	Hydrogen, H ₂
	РХ2-Х-	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
NH ₃	E1125-AX	10/0	100/0	100/0	200/0	5000/0	10/<10	10/<20	20/<2	20/0	1000/-10
NH ₃	E1125-BX	10/0	100/0	100/0	200/0	5000/0	10/<12	10/<30	20/0	20/0	1000/-150
NH ₃	E1125-CX	10/0	100/0	100/0	200/0	5000/0	10/<12	10/<30	20/0	20/0	1000/-150
NH ₃	E1125-DX	10/0	100/0	100/0	200/0	5000/0	10/<12	10/<30	20/0	20/0	1000/-150
NH ₃	E1125-EX	10/0	100/0	100/0	200/0	5000/0	10/<12	10/<30	20/0	20/0	1000/-150
HCl	E1186-DX	20/0		100/0	1000/0		100/0	20/31	20/-6	25/0	/0
HCN	E1183-XX ²			100/0	100/2		20/38	15/25	5/-12	35/0	100/2
CO	E1110-XX ²	2/0	2000/5			5000/0	50/0,5	25/0	50/-1	50/8	100/20
H₂S	E1197-XX ²				100/2		100/20		5/1	35/2	100/20
NO ₂	E1130-XX ²	1/1	100/0	500/0	400/0	5000/0	30/-0,6	20/-25		50/0	1000/0
02	E1195-XX ²					5Vol%/					

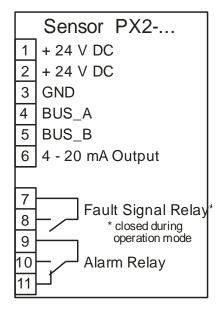
¹ The table doesn't claim to be complete. Other gases, too, can have an influence on the sensitivity. The mentioned cross sensitivity data are only reference values valid for new sensors.

All specifications were collected under optimal test conditions.

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

Electrochemical sensors are susceptible to poisoning by organic solvents and silicone vapours.

ELECTRICAL CONNECTION



² Cross sensitivities valid for all measuring ranges of the sensor.



ORDER INFORMATION

X- 1-	Х-	EXXXX-XX - EXXXX-XX	ХХ	SENSOR EXCHANGE HEAD ¹			
			P1 P3	Aluminum die-cast housir Aluminum die-cast housir	Sensor housing		
		E1110-BX		Carbon monoxide, CO	El. Chem.	0-100 ppm	
		E1110-CX		Carbon monoxide, CO	El. Chem.	0-150 ppm	
		E1110-EX		Carbon monoxide, CO	El. Chem.	0-250 ppm	
		E1110-FX		Carbon monoxide, CO	El. Chem.	0-300 ppm	
		E1110-HX		Carbon monoxide, CO	El. Chem.	0-500 ppm	
		E1125-BX*		Ammonia, NH₃	El. Chem.	0-100 ppm	
		E1125-BX*		Ammonia, NH₃	El. Chem.	0-300 ppm	
		E1125-BX*		Ammonia, NH₃	El. Chem.	0-500 ppm	
		E1125-BX*		Ammonia, NH₃	El. Chem.	0-1000 ppm	
		E1125-BX*		Ammonia, NH₃	El. Chem.	0-5000 ppm	
		E1130-EX		Nitrogen dioxide, NO₂	El. Chem.	0-100 ppm	
		E1186-DX		Hydrogen chloride, HCl	El. Chem.	0-20 ppm	
		E1183-BX		Hydrogen cyanide, HCN	El. Chem.	0-50 ppm	
		E1183-CX		Hydrogen cyanide, HCN	El. Chem.	0-100 ppm	
		E1197-AX		Hydrogen sulphide, H₂S	El. Chem.	0-50 ppm	
		E1197-BX		Hydrogen sulphide, H₂S	El. Chem.	0-100 ppm	
		E1197-CX		Hydrogen sulphide, H₂S	El. Chem.	0-200 ppm	
		E1197-SX		Hydrogen sulphide, H₂S	El. Chem.	0-500 ppm	
		E1195-A2		Oxygen – 2 years, O2	El. Chem.	0-25 Vol.%	
		E1195-A3		Oxygen – 3 years, O ₂	El. Chem.	0-25 Vol.%	
		E1195-A5		Oxygen – 5 years, O2	El. Chem.	0-25 Vol.%	
		E1195-A7		Oxygen – 7 years, O ₂	El. Chem.	0-25 Vol.%	Gas type / range
	0 1 2 3	Without op Relay set (2 LC Display	tions !)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Lt. Chem.	0-25 VOL.70	Gas type / rang Options
	J	Actay Set (2	_, and	i Le Display			ориона
1		one 1 and 2 one 2					ATEX Zone

^{*} Only on request

¹ The exchangeable sensor head is only to be used in connection with the PolyXeta®2 Gas Sensor. Otherwise it loses its ATEX Certification.