

Technical Datasheet



PolyXeta®2 **Gas Detector PX2** **with Marine Approval** **for Zone 1 and 2** for combustible, toxic gases or oxygen

DESCRIPTION

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ORDERING INFORMATION FOR COMBUSTIBLE GASES OR OXYGEN

ORDERING INFORMATION FOR TOXIC GASES

ELECTRICAL CONNECTION

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In case of arbitration only the German wording shall be valid and binding.



DESCRIPTION

Fixed PolyXeta®2 Gas Detectors with Marine Approval

of the PX2-1 series with Ex db protection for Zone 1 (and 2)

designed for the continuous monitoring of the ambient air to detect toxic and combustible 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 detector with 4–20 mA / RS-485 Modbus output signal, alarm and fault relays (all SIL2 certified) for monitoring the ambient air to detect toxic or combustible gases and vapours or oxygen concentrations. Optionally, the PolyXeta®2 gas detector is also available with LC display.

The calibration of gas detectors without LCD display is carried out via the calibration device STL06-PGX2 or the PC software PCE06-PGX2. Gas detectors 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 gas detectors with LCD display changes from green to red.

APPLICATION

The PolyXeta®2 gas detector PX2 is used on ships, shipyards and offshore platforms as well as in industrial areas like oil/gas industry, biogas plants, petrochemical industry, power plants etc. in Ex Zone 1 or 2. The PolyXeta®2 gas detector is also suitable for commercial areas like gas transfer like e.g. gas transfer stations etc.

With the 4–20 mA / RS-485 Modbus output signal the gas detector is suitable for connection to the PolyGard® gas controller series by MSR-Electronic GmbH, as well as to any other controllers or automation devices.



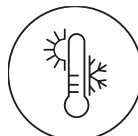
Shipping



Hydrogen



Laboratory



Climate



Battery



Waste



Process



Gas storage

CERTIFICATES / FEATURES

- ATEX and IECEx certificates MSR-Electronic GmbH for electrical Ex protection
- MED Certificate and TA Certificate: Approval according to Marine Equipment Directive 2014/90/EU by DNV
- Some types with approved Measuring Function for the Explosion Protection by DEKRA Testing and Certification GmbH
- SIL2 safety functions 4–20 mA, RS-485 and relay
- **PX2-1 for zone 1 (and also suitable for zone 2):**
 - Type “Ex db” protection flame-proof enclosure
- Enclosure: Additional FM and CSA certificates for Class I, Div. 1

- Continuous self-monitoring
- Microprocessor with 12-bit converter resolution
- Reverse polarity protection
- Overload protection
- Easy calibration
- Calibration service by exchanging the sensor head
- Proportional 4–20 mA output
- Serial interface to the control centre
- Alarm and fault signal relay
- LCD display with status LEDs (optional)
- Connection of SSAX1 sensor head as an alternative to SX1 (optional)
- IP66 protection with SplashGuard accessories (optional, see data sheet Accessories)

SPECIFICATIONS – GENERAL

ELECTRICAL		
Power supply PX2-1 series	20–28 V DC reverse polarity protected	
Power consumption (at 24 V DC)	3.3 W, max. 130 mA	
Control unit	Microprocessor with 12-bit converter resolution	
Digital filter	Averaging in order to increase the EMC immunity	
Visual indications	3 LEDs for power, alarm and fault	
Analog output signal (active)	Proportional, overload and short-circuit proof, Max. load for UE > 20 V = 350 Ω and UE > 22 V = 500 Ω 4–20 mA = measuring range 2.4 (3.3)–4 mA = tolerable underrange 20–21.2 mA = tolerable overrange ≥ 21.2 mA= error overrange ≤ 2 mA = fault ≤ 1 mA = processor or voltage breakdown	
Serial interface	Serial data bus	
Fault relay (SPNC)	Max. 30 V AC/DC, 1 A	
Alarm relay (SPDT)	Max. 30 V AC/DC, 1 A	
LCD (optional)	2 x 16 characters, 3 status LEDs, 4 menu operating elements	
SENSOR ELEMENT (see also table SPECIFICATIONS - SENSOR ELEMENT)		
Gas type	Combustible gases	Toxic gases and oxygen
Measuring range	0–100 % LEL	See ORDERING INFORMATION
Measuring principle	Pellistor (catalytic bead) sensor	Electrochemical
Stabilization time		24 h
Warm-up time	300 s	≤ 60 s, for NH ₃ ≤ 300 s
Temperature range	-30 °C to +60 °C (-22 °F to 140 °F)	See SPECIFICATIONS – ELECTRO-CHEMICAL SENSOR ELEMENT
	(see also ENVIRONMENTAL CONDITIONS)	
Humidity range	0–95 % RH not condensing	See SPECIFICATIONS – ELECTROCH. S.
Pressure range	90–110 kPa	See SPECIFICATIONS – ELECTROCH. S.
Expected sensor lifetime	5 years / normal ambient conditions	See SPECIFICATIONS – ELECTROCH. S.
Poisoning	Pellistors can be poisoned by silicone-containing substances or other catalyst poisons up to complete loss of sensitivity.	Electrochemical sensors are susceptible to poisoning by organic solvents.
RECOMMENDED STORAGE CONDITIONS		
Storage temperature range ¹	0 °C to +20 °C (32 °F to 68 °F)	See SPECIFICATIONS – ELECTRO-CHEMICAL SENSOR ELEMENT
Storage time ²	Ca. 6 months	
Humidity range	20–90 % RH non-condensing	
Pressure range	90–110 kPa	
SENSOR HEAD SX1 HOUSING		
Material / colour	CrNi Stahl: 1.4404 / natural	
Dimensions (Ø x H)	30 x 61 mm (1.18 x 2.40 in.)	
Protection class	IP64, with SplashGuard accessories IP66	
Thread	External thread NPT ¾" ANSI/ B1.20.1	
PHYSICAL CHARACTERISTICS		
Enclosure X1 and X3 / colour	Aluminum pressure die-casting / pebble grey RAL 7032, epoxy coating	
Dimensions (W x H x D) / weight	125 x 167 x 83 mm (4.92 x 6.57 x 3.27 in.) / approx. 1.3 kg (2.87 lb.)	
Protection class	Housing protection IP66 to IP68 (depending on the cable glands used)	
Mounting	Wall mounting (sensor head downwards)	
Cable entry	1x resp. 3x ¾ in. (Ansi B1.20.1)	
Wire connection	Spring-type terminal, 0.08–2.5 mm ² (AWG 28–12)	

¹ A deviating storage temperature can have a negative effect on sensitivity and service life.

² If stocked for a longer period, we recommend checking the zero point and recalibrating if necessary

ENVIRONMENTAL CONDITIONS (operation and explosion protection)	
Temperature	
• Explosion protection	-25/-40 °C to +60 °C (-13/-40 to 140 °F)
• With display	-20 °C to +60 °C (-4 °F to 140 °F)
Pressure range ¹	90–110 kPa (combustible gases) / 80–110 kPa (oxygen)
Air velocity	< 6 m/s
APPROVALS AND EXAMINATIONS	
MED Certificate	MEDB00007CE, Notified Body 0098
TA Certificate	TAA000032C
EU Type Examination Certificate Electrical Explosion Protection ATEX	BVS 15 ATEX E 129 X ³ EN IEC 60079-0:2018; EN 60079-1:2014
EU Type Examination Certificate with Measuring Function for Explosion Protection for Combustible Gases and oxygen (inertisation) ²	BVS 15 ATEX E 129 X ³ EN 60079-29-1:2023; EN 50271:2018, EN 50104:2024
Type Examination Certificate Measurement of oxygen deficiency and enrichment ²	PFG 19 G 003 X ³ EN 50104:2024; EN 50271:2018
IECEx Type Examination Certificate Electrical Explosion Protection	IECEx BVS 16 0038X ³ IEC 60079-0:2017; IEC 60079-1:2014-06
Type of Protection	Ex db IIC T4 Gb -40 °C < Ta < +60 °C
ATEX Marking	II 2 G Ex db IIC T4 Gb
Functional safety SIL2	Certificate: ZP/C029/21; DIN EN 61508-1; -2; -3:2011
EMC test ¹	Certificate: PR 18 03 53984 001 EN 50270-2015 Interference immunity & emission: Type 2 (industrial sector)
Functional test for toxic gases	EN IEC 62990-1 Type SM
EU Declaration of Conformity	CE_PX2-1_Zone1
Certificates only housing	
FM Certificate	Class 3600, Class 3615, Class 3810, ANSI/NEMA 250. Explosionproof for Class I, Division 1, Groups A, B, C and D; dust-ignition-proof for Class II, Division 1, Groups E, F and G, Class III, hazardous (classified) locations, indoors and outdoors (type 4X).
CSA Certificate	2472857 / Class 2258-02 PROCESS CONTROL EQUIPMENT for hazardous locations Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G, Class III, Div. 1; Type 4X
WARRANTY	
	1 year on sensor (not if poisoned or overloaded), 2 years on device

¹ The explosion protection test only covers the pressure range up to 110 kPa and the oxygen concentration up to 21 % vol.

² Not in conjunction with remote sensor head SSAX1

³ DEKRA Testing and Certification GmbH

SPECIFICATIONS – PELLISTOR SENSOR ELEMENT

Gas type	Order No.	Measuring range ¹	Accuracy	Display resolution	Repeatability	t ₉₀ time	Reaction time	Zero-point variation	Drift in air	Relative gas density ¹	Calibration interval ²
	PX2-1-X-SX1-1-	% LEL	± % sig.	% LEL	< ± % sig.	≤ sec.	≤ sec.	± % LEL	< % sig. /month	Air = 1	Months
CH ₄	P3400-A	0–100 % LEL	1 (CH ₄)	0.1	2 (CH ₄)	30	5	0.5 (CH ₄)	2 (CH ₄)	0.56	12
C ₆ H ₁₄	P3435-A	0–100 % LEL	1 (CH ₄)	0.1	2 (CH ₄)	50	10	0.5 (CH ₄)	2 (CH ₄)	2.97	6
H ₂	P3440-A	0–100 % LEL	1 (CH ₄)	0.1	1 (CH ₄)	10	5	0.5 (CH ₄)	2 (CH ₄)	0.07	12
C ₃ H ₈	P3480-A	0–100 % LEL	1 (CH ₄)	0.1	2 (CH ₄)	40	15	0.5 (CH ₄)	2 (CH ₄)	1.55	6
C ₃ H ₈ O	P3482-A	0–100 % LEL	1 (CH ₄)	0,1	2 (CH ₄)	80	10	0.5 (CH ₄)	2 (CH ₄)	2.07	6

¹ 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

² Manufacturer-recommended calibration intervals for normal environmental conditions.

SPECIFICATIONS – ELECTROCHEMICAL SENSOR ELEMENT

Gas type	Order No.	Measuring range ¹	Accuracy	Display resolution	Repeatability	t ₉₀ time	Reaction time	Zero-point variation	Drift in air	Temperature range	Pressure range	Storage temperature range ²	Humidity range (non-condensing)	Life time ³ in air	Relative gas density ⁴	Calibration interval ⁵
	PX2-1-X-SX1-1-	ppm	± % sig.	ppm	± % sig.	≤ sec.	≤ sec.	± ppm	± % sig./month	°C	kPa	°C	% RH	> years	Air = 1	Months
CO	E1110-A	0–50	2	0.01	3	35	5	1	2	-20 / +50	90–110	10–30	15–90	2	0.97	12
CO	E1110-C	0–150	2	0.1	5	40	5	4	0.4	-20 / +50	80–120	0–20	10–95	6	0.97	12
CO	E1110-E	0–250	2	0.1	5	40	5	4	0.4	-20 / +50	80–120	0–20	10–95	6	0.97	12
CO	E1110-F	0–300	2	0.1	5	40	5	4	0.4	-20 / +50	80–120	0–20	10–95	6	0.97	12
CO	E1110-H	0–500	2	0.1	5	40	5	4	0.4	-20 / +50	80–120	0–20	10–95	6	0.97	12
NH ₃	E1125-A	0–100	5	0.1	10	200	10	5	2	-30 / +50	80–120	0–20	15–90	2	0.60	12
NH ₃	E1125-B	0–300	3	0.1	10	200	10	5	2	-30 / +50	80–120	0–20	15–90	2	0.60	12
NH ₃	E1125-C	0–500	3	0.1	10	200	10	5	2	-30 / +50	80–120	0–20	15–90	2	0.60	12
NH ₃	E1125-D	0–1000	3	1	10	200	10	10	2	-30 / +50	80–120	0–20	15–90	2	0.60	12
NH ₃	E1125-E	0–5000	2	1	5	170	10	100	2	-30 / +50	80–120	0–20	15–90	2	0.60	12
NO ₂	E1130-E	0–100	5	0.1	2	120	10	2	2	-30 / +50	80–120	0–20	15–90	2	2.80	12
CH ₃ OH	E1150-A	0–250	5	0.1	5	180	10	5	2	-20 / +50	15–90	80–120	0–20	2	1,10	6
VOC	E1160-A	0–10	5	0.01	5	70	10	0.5	1	-40 / +50	80–120	0–20	15–95	3	-	12
VOC	E1160-B	0–5	5	0.001	5	70	10	0.5	1	-40 / +50	80–120	0–20	15–95	3	-	12
HCN	E1183-B	0–50	5	0.01	5	40	10	2	2	-20 / +50	90–110	5–20	15–90	2	0.93	6
HCN	E1183-C	0–100	5	0.1	5	60	10	2	2	-20 / +50	90–110	5–20	15–90	2	0.93	6
HCl	E1186-D	0–20	5	0.01	5	60	15	0.5	2	-20 / +50	90–110	5–20	15–90	2	1.27	6
H ₂	E1194-A	0–1000	n.d.	1	5	90	10	10	2	-20 / +50	90–110	10–30	15–90	2	0.07	12
H ₂ S	E1197-A	0–50	3	0.01	2	70	10	1	2	-30 / +50	80–120	0–20	15–90	2	1.19	6
H ₂ S	E1197-B	0–100	3	0.1	2	70	10	1	2	-30 / +50	80–120	0–20	15–90	2	1.19	6
H ₂ S	E1197-C	0–200	3	0.1	2	70	10	2	2	-30 / +50	80–120	0–20	15–90	2	1.19	6
H ₂ S	E1197-D	0–500	3	0.1	2	70	10	5	2	-30 / +50	80–120	0–20	15–90	2	1.19	6
H ₂ S	E1197-E	0–1500	3	1	5	90	10	15	n.d.	-30 / +50	90–110	5–20	15–90	2	1.19	6
		% vol														
O ₂	E1195-A2	0–25	2	0.01	n.d.	40	10	n.d.	0.4	-40 / +50	80–120	0–20	5–95	2	1.11	6

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 under 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
	PX2-1-X-SX1-1-		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 ₂	E1130-E	50/0	1/0.5	-	-	5000/0	300/0	20/0	15/<1	-	50/<-1	200/0
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
HCl	E1186-D	80/0	20/<0.5	30/<0.3	100/0	-	1000/0	100/0	20/<40	20/-6	25/0	-
H ₂	E1194-A	-	10/0	-	100/80	-	50/200	5/0	25/0	5/0	35/<10	-
O ₂	E1195-A2	-	-	-	-	-	-	-	-	-	-	-
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

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 sensitivities valid for all (other) measuring ranges of the sensor.

CROSS SENSITIVITY¹ – SENSOR ELEMENT (VOC Sensor)

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
	PX2-1-X-SX1-1-	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 FOR COMBUSTIBLE GASES OR OXYGEN

☼ Approval according to Marine Equipment Directive 2014/90/EU by DNV, MED and TA Certificates
Metrological approval according to EN 60079-29-1 by DEKRA Testing and Certification GmbH.

PX2-	1-	X-	XXXXXX-A(2)-	MX	GAS DETECTOR	
				MX	With marine approval	
				M1 ¹	Type 1: Aluminum die-cast housing, 1x cable entry	
				M3 ¹	Type 3: Aluminum die-cast housing, 3x cable entry	
				M4 ²	Remote sensor SSAX1-1-XXXXXX-A(2)-10-KX, housing type 1	
				M5 ²	Remote sensor SSAX1-1-XXXXXX-A(2)-10-KX, housing type 3	
						Version
SX1-	1-		XXXXXX-A(2)-	M	EXCHANGE HEAD³	
					Gas type	Measuring range
				P3400-A	Methane, CH ₄	0–100 % LEL
				P3435-A	n-Hexane, C ₆ H ₁₄	0–100 % LEL
				P3440-A	Hydrogen, H ₂	0–100 % LEL
				P3480-A	Propane, C ₃ H ₈	0–100 % LEL
				P3482-A	Isopropyl alcohol, C ₃ H ₈ O	0–100 % LEL
				E1195-A2	Oxygen – 2 years, O ₂	0–25 % vol
						Gas type / Range
				0	Without LC-Display (for sensor head SSAX1)	
				1 ⁴	Without LC-Display (for sensor head SX1)	
				2	With LC-Display (for sensor head SSAX1)	
				3	With LC-Display (for sensor head SX1)	
						Display
	1		Zone 1			ATEX Zone

¹ Including one cable gland for PX2-1 with Ex d approval (Zone 1) in metal (-40 °C to +60 °C).

² Instead of the fixed sensor head SX1, the PX2-1 is supplied with a remote sensor head SSAX1, which must be ordered separately in addition. For ordering information and sensor data see datasheet DB_SSAX1_Ex or DB_SSAX1_Tox for oxygen. The PX2 in combination with SSAX1 is without metrological approval!

³ The exchangeable sensor head is only to be used in connection with the PolyXeta®2 Gas Detector. Otherwise, it loses its ATEX / Marine Approval.

⁴ For use in potentially explosive atmospheres with measuring function, the version with display unit must be used.

ORDERING INFORMATION FOR TOXIC GASES

☼ Approval according to Marine Equipment Directive 2014/90/EU by DNV, MED and TA Certificates

PX2-	1-	X-	E11XX-X-	MX GAS DETECTOR	
				MX With marine approval	
				M1 ¹ Type 1: Aluminum die-cast housing 1x cable entry	
				M3 ¹ Type 3: Aluminum die-cast housing 3x cable entry	
				M4 ² Remote sensor SSAX1-1-E11XX-X-10-KX, housing type 1	
				M5 ² Remote sensor SSAX1-1-E11XX-X-10-KX, housing type 3	Version
SX1-	1-		E11XX-X-	M EXCHANGE HEAD³	
				Gas type	Measuring range
			E1110-A	Carbon monoxide, CO	0–50 ppm
			E1110-C	Carbon monoxide, CO	0–150 ppm
			E1110-E	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
			E1130-E	Nitrogen dioxide, NO ₂	0–100 ppm
			E1150-A	Methanol, CH ₃ OH	0–250 ppm
			E1160-A	VOC	0–10 ppm
			E1160-B	VOC	0–5 ppm
			E1183-B	Hydrogen cyanide, HCN	0–50 ppm
			E1183-C	Hydrogen cyanide, HCN	0–100 ppm
			E1186-D	Hydrogen chloride, HCl	0–20 ppm
			E1194-A	Hydrogen, H ₂	0–1000 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
					Gas type / Range
			0	Without LC-Display	
			2	With LC-Display	Display
		1	Zone 1		ATEX Zone

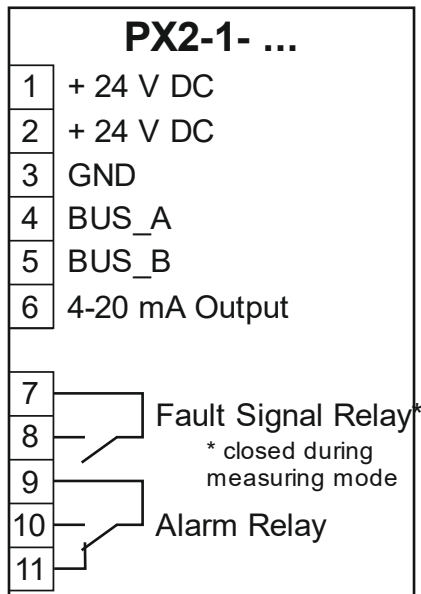
¹ Including one cable gland for PX2-1 with Ex d approval (Zone 1) in metal (-40 °C to +60 °C).

² Instead of the fixed sensor head SX1, the PX2-1 is supplied with a remote sensor head SSAX1, which must be ordered separately in addition. For ordering information and sensor data see datasheet DB_SSAX1_Tox.

³ The exchangeable sensor head is only to be used in connection with the PolyXeta®2 Gas Detector. Otherwise, it loses its ATEX / Marine Approval.

Accessories	Order number
Calibration adapter	CAL01-PX2
Stainless steel splash guard	SG-PX2
ATEX metal cable gland (Ex d) for zone 1 and 2, Temperature range: -40 °C to +60 °C	ZU-PX2-CG-SN
Magnetic pen for operation	MSR_PEN_PX2
Sensor Head Protection	ZU-PX2-SHP-20
Service-Tool for display, calibration, addressing and parameter changes	STL06-PGX2-XX
PC-Software set for display, calibration, addressing and parameter changes	PCE06-PGX2-XX-X

ELECTRICAL CONNECTION



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