Configuration of measurement parameters

Explanations
● – possible solution
○ – non-recommended solution - pay special attention to the enclosure's resistance to environmental conditions

The list of substances detected by PID sensors is in document DOK-6556

Sensor type:

EC – electrochemical
PEL – catalytic
IR – infra-red
PID – photoionization

Classification of chemical substances

A – criterion: stability of the calibration mixture
B – criterion: safety

ID	MC code	Sensor code	Gas name	Range	Unit	Tamin [°C]	Tamax [°C]	Sensor type	Lifetime / reliability	Additional materials and remarks	Gas Detector			Measuring head								Response time t_{90} [s]	A	B	Months between calibration
											SmArtGas 4	ProGas 4	ReAct 4	FL	FL.M	FL.C	FH	FH.M	HL	HH	HR	HW				
1	E.CO.200P.A	S-CO-01.01	Carbon monoxide	200	ppm	-40	50	EC	3 years in clean air		●	●	●	●	●				●		●		FL = 35; FL.M = 35; HL = 35;	A0	B1	12
2	E.CO.200P.B	S-CO-01.07	Carbon monoxide	200	ppm	-40	50	EC	3 years in clean air	Low hydrogen cross-sensitivity.	●	●	●	●	●				●		●			A0	B1	12
3	E.CO.1000P.A	S-CO-01.02	Carbon monoxide	1000	ppm	-40	50	EC	3 years in clean air		●	●	●	●	●				●		●			A0	B1	12
4	E.CO.1000P.B	S-CO-01.03	Carbon monoxide	1000	ppm	-40	50	EC	3 years in clean air	Low hydrogen cross-sensitivity.	●	●	●	●	●				●		●			A0	B1	12
5	E.H2.1000P.A	S-H2-01.03	Hydrogen	1000	ppm	-40	50	EC	3 years in clean air	Calibration gas purchase required	●	●		●	●				●					A0	B0	12
6	E.H2S.50P.A	S-H2S-01.01	Hydrogen sulfide	50	ppm	-40	50	EC	3 years in clean air, SIL 2		●	●	●	●	●				●		●		FL = 40; FL.M = 45; HL = 50; HR = 30;	A1	B1	12
7	E.NH3.100P.A	S-NH3-01.01	Ammonia	100	ppm	-10	50	EC	3 years in clean air	Short response time.	●	●	●	●	●				●		●			A1	B1	12
8	E.NO.25P.A	S-NO-01.01	Nitric oxide	25	ppm	-40	50	EC	3 years in clean air			●	●								●			A1	B1	12
9	E.NO.100P.A	S-NO-01.02	Nitric oxide	100	ppm	-40	50	EC	3 years in clean air			●	●								●			A1	B1	12
10	E.NO2.20P.A	S-NO2-01.01	Nitrogen dioxide	20	ppm	-40	50	EC	3 years in clean air			●	●								●		HR = 45;	A1	B1	12
11	E.SO2.5P.A	S-SO2-01.01	Sulphur dioxide	5	ppm	-40	50	EC	3 years in clean air			●	●								●			A1	B1	12
12	E.SO2.20P.A	S-SO2-01.01	Sulphur dioxide	20	ppm	-40	50	EC	3 years in clean air			●	●								●			A1	B1	12
13	C.NH3.30000P.A	PWS-024-CAT-19.02	Ammonia	30000	ppm	-20	40	PEL			●	●		●	●				●					A1	B3	12
14	C.CH3COCH3.100L.A	PWS-024-CAT-02.13	Acetone	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B1	12
15	C.C2H2.100L.A	PWS-024-CAT-02.07	Acetylene	100	%LEL	-40	60	PEL	3 years in clean air		●	●		●	●				●					A0	B0	12
16	C.NH3.100L.A	PWS-024-CAT-02.14	Ammonia	100	%LEL	-40	60	PEL	3 years in clean air, SIL 2		●	●		●	●				●					A1	B3	12
17	C.C4H10O.100L.A	PWS-024-CAT-02.13	1-Butanol	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
18	C.C2H5OH.100L.A	PWS-024-CAT-02.13	Ethyl alcohol	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●				FL = 25; HL = 35;	A2	B2	12
19	C.C6H14.100L.A	PWS-024-CAT-02.13	Hexane	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12

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ID	MC code	Sensor code	Gas name	Range	Unit	Tamin [°C]	Tamax [°C]	Sensor type	Lifetime / reliability	Additional materials and remarks	Gas Detector			Measuring head								Response time t_{90} [s]	A	B	Months between calibration
											SmArtGas 4	ProGas 4	ReAct 4	FL	FL.M	FL.C	FH	FH.M	HL	HH	HR	HW				
20	C.C3H8O.100L.A	PWS-024-CAT-02.13	Isopropanol	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
21	C.C8H10.100L.A	PWS-024-CAT-02.13	Xylene	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
22	C.CH4.100L.A	PWS-024-CAT-02.14	Methane	100	%LEL	-40	60	PEL	3 years in clean air, SIL 2		●	●		●	●	●			●				FL = 13;	A0	B0	12
23	C.CH3OH.100L.A	PWS-024-CAT-02.13	Methyl alcohol	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
24	C.C4H8O2.100L.A	PWS-024-CAT-02.13	Ethyl acetate	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
25	C.C5H10O2.100L.A	PWS-024-CAT-02.13	Isopropyl acetate	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
26	C.C6H12O2.100L.A	PWS-024-CAT-02.13	Butyl acetate	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
27	C.C5H12.100L.A	PWS-024-CAT-02.13	Pentane	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A0	B0	12
28	C.C3H8.100L.A	PWS-024-CAT-02.14	Propane	100	%LEL	-40	60	PEL	3 years in clean air, SIL 2		●	●		●	●				●				FL = 17;	A0	B1	12
29	C.C3H6.100L.A	PWS-024-CAT-02.14	Propylene	100	%LEL	-40	60	PEL	3 years in clean air, SIL 2	Calibration gas purchase required	●	●		●	●				●					A0	B1	12
30	C.C8H8.100L.A	PWS-024-CAT-02.13	Styrene	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
31	C.C2H4O.100L.A	PWS-024-CAT-02.14	Ethylene oxide	100	%LEL	-40	60	PEL	3 years in clean air, SIL 2	Calibration gas purchase required	●	●		●	●				●					A1	B3	12
32	C.C3H6O.100L.A	PWS-024-CAT-02.14	Propylene oxide	100	%LEL	-40	60	PEL	3 years in clean air, SIL 2	Calibration gas purchase required	●	●		●	●				●					A1	B3	12
33	C.C7H8.100L.A	PWS-024-CAT-02.13	Toluene	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
34	C.H2.100L.A	PWS-024-CAT-02.14	Hydrogen	100	%LEL	-40	60	PEL	3 years in clean air, SIL 2		●	●		●	●	●			●				FL = 9; HL = 19;	A0	B0	12
35	P.C4H8.10P.A	S-PID-13.12	VOC Isobutylene	10	ppm	-20	60	PID	Lamp Life < 18 months	Detects substances with ionization energy <10.6eV.	●	●					●	●		●				A0	B0	6
36	P.C4H8.100P.A	S-PID-13.13	VOC Isobutylene	100	ppm	-20	60	PID	Lamp Life < 18 months	Detects substances with ionization energy <10.6eV.	●	●					●	●		●				A0	B0	6
37	P.C4H8.1000P.A	S-PID-13.14	VOC Isobutylene	1000	ppm	-20	60	PID	Lamp Life < 18 months	Detects substances with ionization energy <10.6eV.	●	●					●	●		●				A0	B0	6
38	P.C4H8.5000P.A	S-PID-13.15	VOC Isobutylene	5000	ppm	-20	60	PID	Lamp Life < 18 months	Detects substances with ionization energy <10.6eV.	●	●					●	●		●				A0	B0	6
39	C.C4H10O2.100L.A	PWS-024-CAT-02.13	1-Metoxy 2-propanol	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B1	12
40	C.C6H6.100L.A	PWS-024-CAT-02.13	Benzene	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B3	12
41	C.C4H6.100L.A	PWS-024-CAT-02.13	Butadiene	100	%LEL	-40	70	PEL	5 years in clean air, SIL2	Calibration gas purchase required	●	●		●	●				●					A1	B2	12
42	C.C3H8.80L.A	PWS-024-CAT-02.14	Propane	80	%LEL	-40	60	PEL	3 years in clean air, SIL 2		●	●		●	●				●				FL = 17;	A0	B1	12
43	C.C4H8O.100L.A	PWS-024-CAT-02.13	2-Butanone (methyl ethyl ketone)	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
44	E.NH3.100P.D	S-NH3-13.01	Ammonia	100	ppm	-40	50	EC	2 years in clean air, SIL 2		●	●	●	●	●				●		●			A1	B1	12
45	E.NH3.100P.E	S-NH3-13.02	Ammonia	100	ppm	-40	40	EC	SIL 2, 5 years in clean air		●	●	●	●	●				●		●		HR = 95;	A1	B1	12

											Gas Detector			Measuring head													
ID	MC code	Sensor code	Gas name	Range	Unit	Tamin [°C]	Tamax [°C]	Sensor type	Lifetime / reliability	Additional materials and remarks	SmArtGas 4	ProGas 4	ReAct 4	FL	FL.M	FL.C	FH	FH.M	HL	HH	HR	HW	Response time t_{90} [s]	A	B	Months between calibration
46	E.NH3.1000P.C	S-NH3-13.03	Ammonia	1000	ppm	-40	50	EC	SIL 2, 2 years in clean air		●	●	●	●	●				●		●			A1	B3	12
47	E.NH3.2000P.B	S-NH3-13.04	Ammonia	2000	ppm	-40	50	EC	SIL 2, 2 years in clean air		●	●	●	●	●				●		●		FL = 63; HL = 43; HR = 73;	A1	B3	12
48	E.NH3.600P.B	S-NH3-13.03	Ammonia	600	ppm	-40	50	EC	SIL 2, 2 years in clean air		●	●	●	●	●				●		●			A1	B3	12
49	C.C6H10O.100L.A	PWS-024-CAT-02.13	Cyclohexanone	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B1	12
50	C.C3H3N.100L.A	PWS-024-CAT-02.13	Acrylonitrile	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
51	E.CO.500P.A	S-CO-01.10	Carbon monoxide	500	ppm	-40	50	EC	3 years in clean air	Low hydrogen cross-sensitivity.	●	●	●	●	●				●		●			A0	B1	12
52	E.NH3.300P.A	S-NH3-13.05	Ammonia	300	ppm	-40	50	EC	SIL 2, 2 years in clean air		●	●	●	●	●				●		●			A1	B1	12
53	C.C4H9OH.100L.A	PWS-024-CAT-02.13	2-Methyl-1-propanol (isobutanol)	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
54	E.CH2O.10P.A	S-CH2O-01.01	Formaldehyde (methanal)	10	ppm	-40	50	EC	3 years in clean air		●	●	●	●	●				●		●			A3	B3	12
55	C.C5H8O2.100L.A	PWS-024-CAT-02.13	Methyl methacrylate	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
56	C.C4OH8.100L.A	PWS-024-CAT-02.13	n-Butylene oxide -1,2 (1,2-Epoxybutane)	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B3	12
57	E.O3.3P.A	S-O3-01.01	Ozone	3	ppm	-40	50	EC	3 years in clean air			●	●								●			A2	B2	12
58	E.CO.100P.A	S-CO-01.01	Carbon monoxide	100	ppm	-40	50	EC	3 years in clean air		●	●	●	●	●				●		●		FL = 35; FL.M = 35; HL = 35;	A0	B1	12
59	E.H2S.20P.A	S-H2S-01.01	Hydrogen sulfide	20	ppm	-40	50	EC	3 years in clean air, SIL 2		●	●	●	●	●				●		●		FL = 40; FL.M = 45; HL = 50; HR = 30;	A1	B1	12
60	C.C2H4.100L.A	PWS-024-CAT-02.14	Ethylene (Ethene)	100	%LEL	-40	60	PEL	3 years in clean air, SIL 2		●	●		●	●				●					A0	B0	12
61	E.NH3.200P.A	S-NH3-21.02	Ammonia	200	ppm	-40	50	EC	2 years in clean air		●	●	●	●	●				●		●			A1	B1	12
62	E.CO.5000P.A	S-CO-01.04	Carbon monoxide	5000	ppm	-40	50	EC	3 years in clean air	Low hydrogen cross-sensitivity.	●	●	●	●	●				●		●			A0	B2	12
63	C.C2H5OC2H5.100L.A	PWS-024-CAT-02.13	Diethyl ether	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B3	12
64	E.CO.600P.A	S-CO-01.02	Carbon monoxide	600	ppm	-40	50	EC	3 years in clean air		●	●	●	●	●				●		●			A0	B1	12
65	C.C12H26.100L.A	PWS-024-CAT-02.13	2,2,4,6,6-Pentamethylheptane	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
66	E.H2S.1000P.A	S-H2S-01.03	Hydrogen sulfide	1000	ppm	-40	50	EC	3 years in clean air, SIL 2	Calibration gas purchase required	●	○	●	●	●				●		●			A1	B3	12
67	E.H2S.200P.B	S-H2S-13.01	Hydrogen sulfide	200	ppm	-40	50	EC	2 years in clean air, SIL 2		●	○	●	●	●				●		●		HL = 35;	A1	B1	12
68	C.C6H12O3.100L.A	PWS-024-CAT-02.13	2-Methoxy-1-methylethyl acetate	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
69	E.C2H5OH.100P.A	S-Alc-01.01	Ethyl alcohol	100	ppm	-40	50	EC	3 years in clean air	Above 35C possible high zero drift (approx. 10 ppm); high CO cross-sensitivity.	●	●	●	●	●				●		●			A0	B0	12
70	E.CO.4000P.A	S-CO-01.08	Carbon monoxide	4000	ppm	-40	50	EC	3 years in clean air	Low hydrogen cross-sensitivity.	●	●	●	●	●				●		●			A0	B2	12

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											Gas Detector			Measuring head												
ID	MC code	Sensor code	Gas name	Range	Unit	Tamin [°C]	Tamax [°C]	Sensor type	Lifetime / reliability	Additional materials and remarks	SmArtGas 4	ProGas 4	ReAct 4	FL	FL.M	FL.C	FH	FH.M	HL	HH	HR	HW	Response time t_{90} [s]	A	B	Months between calibration
71	C.C4H10.100L.A	PWS-024-CAT-02.14	Isobutane	100	%LEL	-40	60	PEL	3 years in clean air, SIL 2	Calibration gas purchase required	●	●		●	●				●					A0	B0	12
72	E.CO.50P.A	S-CO-01.01	Carbon monoxide	50	ppm	-40	50	EC	3 years in clean air		●	●	●	●	●				●		●		FL = 35; FL.M = 35; HL = 35;	A0	B1	12
73	C.C5H10.100L.A	PWS-024-CAT-02.13	Cyclopentane	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
74	C.C5H14N2.100L.A	PWS-024-CAT-02.13	Dimethylaminopropylamine	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
75	E.NH3.200P.B	S-NH3-13.06	Ammonia	200	ppm	-40	40	EC	SIL 2, 5 years in clean air		●	●	●	●	●				●		●			A1	B1	12
76	E.PH3.5P.A	S-PH3-01.01	Phosphine	5	ppm	-40	50	EC	3 years in clean air	Calibration gas purchase required		○	●								●			A1	B2	6
77	C.C2H3N.100L.A	PWS-024-CAT-02.13	Acetonitrile	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
78	C.C2H4OHC2H5.100L.A	PWS-024-CAT-02.13	2-Butanol	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
79	E.CLO2.5P.A	S-CLO2-01.02	Chlorine dioxide	5	ppm	-40	50	EC	3 years in clean air			○	●								●			A2	B1	12
80	E.H2.10000P.A	S-H2-01.09	Hydrogen	10000	ppm	-40	50	EC	3 years in clean air		●	●		●	●				●					A0	B0	12
81	E.CH3OH.100P.A	S-Alc-01.01	Methyl alcohol	100	ppm	-40	50	EC	3 years in clean air	Above 35C possible high zero drift (approx. 10 ppm); high CO cross-sensitivity.	●	●	●	●	●				●		●			A2	B2	12
82	E.CH2O2.80P.A	S-RCOOH-01.01	Formic acid	80	ppm	-10	50	EC	3 years in clean air			○	●								●			A1	B1	12
83	E.H2O2.2000P.A	S-H2O2-01.03	Hydrogen peroxide	2000	ppm	-20	50	EC	3 years in clean air	Calibration gas purchase required		○	●								●			A1	B3	12
84	E.CH3COOH.100P.A	S-RCOOH-01.01	Acetic acid	100	ppm	-10	50	EC	3 years in clean air			○	●								●			A1	B1	12
85	E.SiH4.50P.A	S-SiH4-01.02	Silane	50	ppm	-20	50	EC	3 years in clean air	Calibration gas purchase required		○	●								●			A1	B2	12
86	E.CL2.2P.D	S-Cl2-25.01	Chlorine	2	ppm	-20	40	EC	2 years in clean air			○	●								●			A2	B1	12
87	E.CL2.10P.B	S-Cl2-25.01	Chlorine	10	ppm	-20	40	EC	2 years in clean air			○	●								●			A2	B1	12
88	C.C9H20.100L.A	PWS-024-CAT-02.13	Nonane	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●				FL = 90; HL = 100;	A2	B1	12
89	E.NO.2000P.A	S-NO-01.04	Nitric oxide	2000	ppm	-40	50	EC	2 years in clean air	Calibration gas purchase required		●	●								●			A1	B2	12
90	E.CO.2000P.A	S-CO-01.06	Carbon monoxide	2000	ppm	-40	50	EC	3 years in clean air	Calibration gas purchase required	●	●	●	●	●				●		●			A0	B2	12
91	E.NO2.500P.A	S-NO2-01.02	Nitrogen dioxide	500	ppm	-40	50	EC	2 years in clean air	Calibration gas purchase required		●	●								●			A1	B2	12
92	E.SO2.2000P.A	S-SO2-01.05	Sulphur dioxide	2000	ppm	-40	50	EC	3 years in clean air	Calibration gas purchase required		●	●								●			A1	B3	12
93	E.CO.300P.A	S-CO-01.10	Carbon monoxide	300	ppm	-40	50	EC	3 years in clean air	Low hydrogen cross-sensitivity.	●	●	●	●	●				●		●			A0	B1	12
94	E.NH3.500P.A	S-NH3-13.03	Ammonia	500	ppm	-40	50	EC	SIL 2, 2 years in clean air		●	●	●	●	●				●		●			A1	B3	12
95	E.O3.1P.C	S-O3-25.01	Ozone	1	ppm	-20	40	EC	18 months in clean air	Do not use with H2S.		●	●								●			A2	B2	12
96	E.AsH3.1P.A	S-AsH3-25.01	Arsine	1	ppm	-40	40	EC	18 months in clean air	Calibration gas purchase required		○	●								●			A1	B2	6

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											Gas Detector			Measuring head													
ID	MC code	Sensor code	Gas name	Range	Unit	Tamin [°C]	Tamax [°C]	Sensor type	Lifetime / reliability	Additional materials and remarks	SmArtGas 4	ProGas 4	ReAct 4	FL	FL.M	FL.C	FH	FH.M	HL	HH	HR	HW	Response time t_{90} [s]	A	B	Months between calibration
97	E.H2.40000P.A	S.H2.01.07	Hydrogen	40000	ppm	-40	50	EC	3 years in clean air		●	●		●	●				●					A0	B0	12
98	E.H2O2.100P.A	S-H2O2-01.01	Hydrogen peroxide	100	ppm	-20	50	EC	3 years in clean air	Calibration gas purchase required		○	●								●			A1	B3	12
99	E.CLO2.1P.C	S-CLO2-25.01	Chlorine dioxide	1	ppm	-20	40	EC	24 months in clean air			○	●								●			A2	B1	12
100	E.F2.1P.A	S-F2-25.01	Fluorine	1	ppm	-20	40	EC	18 months in clean air			○	●								●			A2	B1	12
101	E.HCL.200P.A	S-HCL-01.02	Hydrogen chloride	200	ppm	-20	50	EC	3 years in clean air	Calibration gas purchase required		○	●								●			A1	B2	12
102	C.DME.100L.A	PWS-024-CAT-02.13	1,2-Dimetoxyethane	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B3	12
103	C.C6H5C2H5.100L.A	PWS-024-CAT-02.13	Ethylbenzene	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
104	E.Br2.1P.A	S-Cl2-25.01	Bromine	1	ppm	-20	40	EC	2 years in clean air			○	●								●			A2	B1	12
105	E.H2S.100P.B	S-H2S-01.14	Hydrogen sulfide	100	ppm	-40	50	EC	3 years in clean air	Biogas, manhole.	●	●	●	●	●				●		●			A1	B1	12
106	E.NH3.500P.B	S-NH3-13.07	Ammonia	500	ppm	-40	40	EC	SIL 2, 5 years in clean air		●	●	●	●	●				●		●			A1	B3	12
107	E.HCL.15P.C	S-HCL-25.01	Hydrogen chloride	15	ppm	-20	40	EC	24 months in clean air			○	●								●			A1	B1	12
108	E.HCL.20P.C	S-HCL-25.01	Hydrogen chloride	20	ppm	-20	40	EC	24 months in clean air			○	●								●			A1	B1	12
109	E.HF.10P.B	S-HF-25.01	Hydrogen fluoride	10	ppm	-20	40	EC	18 months in clean air			○	●								●			A1	B1	12
110	E.HCN.10P.C	S-HCN-25.01	Hydrogen cyanide	10	ppm	-40	40	EC	18 months in clean air			○	●								●			A1	B1	12
111	C.C5H12O2.100L.A	PWS-024-CAT-02.13	1-Etoxy 2-propanol	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B1	12
112	C.CH2CL2.100L.A	PWS-024-CAT-02.13	Dichlorometan	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
113	E.CL2.6P.A	S-Cl2-25.01	Chlorine	6	ppm	-20	40	EC	2 years in clean air			○	●								●			A2	B1	12
114	C.C6H12O.100L.A	PWS-024-CAT-02.13	Butyl vinyl ether	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
115	C.C6H15N.100L.A	PWS-024-CAT-02.13	Triethylamine	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B3	12
116	E.NH3.50P.A	S-NH3-13.01	Ammonia	50	ppm	-40	50	EC	2 years in clean air, SIL 2		●	●	●	●	●				●		●			A1	B1	12
117	E.C2H4O.100P.A	S-C2H4O-13.02	Ethylene oxide	100	ppm	-20	50	EC	2 years in clean air	Calibration gas purchase required	●	●		●	●				●					A1	B1	12
118	C.C8H17N.100L.A	PWS-024-CAT-02.13	N,N-Dimethylcyclohexylamine	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A3	B3	12
119	C.C3H7OH.100L.A	PWS-024-CAT-02.13	1-Propanol	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
120	I.CO2.3V.C	PWS-073-IR-CO2.LR	Carbon dioxide	3	%vol	-40	75	IR	SIL 2	Resistance to gas overload.	●	●		●	●				●					A0	B1	12
121	I.CO2.100V.B	PWS-073-IR-CO2.HR	Carbon dioxide	100	%vol	-40	75	IR	SIL 2	Resistance to gas overload.	●	●		●	●				●					A0	B3	12
122	I.CH4.100L.C	PWS-073-IR-HC	Methane	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●	●			●				FL = 38; HL = 40;	A0	B0	12
123	I.CO2.25V.B.Y	PWS-073-IR-CO2.HR	Carbon dioxide	25	%vol	-40	75	IR	SIL 2	Resistance to gas overload.	●	●		●	●				●					A0	B1	12

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											Gas Detector			Measuring head												
ID	MC code	Sensor code	Gas name	Range	Unit	Tamin [°C]	Tamax [°C]	Sensor type	Lifetime / reliability	Additional materials and remarks	SmArtGas 4	ProGas 4	ReAct 4	FL	FL.M	FL.C	FH	FH.M	HL	HH	HR	HW	Response time t_{90} [s]	A	B	Months between calibration
124	I.CO2.5V.C	PWS-073-IR-CO2.LR	Carbon dioxide	5	%vol	-40	75	IR	SIL 2	Resistance to gas overload.	●	●		●	●				●					A0	B1	12
125	I.CO2.2000P.C	PWS-073-IR-CO2.LR	Carbon dioxide	2000	ppm	-40	75	IR	SIL 2	Resistance to gas overload.	●	●		●	●				●					A0	B1	12
126	I.CO2.5000P.C	PWS-073-IR-CO2.LR	Carbon dioxide	5000	ppm	-40	75	IR	SIL 2	Resistance to gas overload.	●	●		●	●				●					A0	B1	12
127	I.C3H8.100L.C	PWS-073-IR-HC	Propane	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●				FL = 61; HL = 65;	A0	B1	12
128	I.C2H4O.100L.C	PWS-073-IR-HC	Ethylene oxide	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload. Calibration gas purchase required	●	●		●	●				●					A1	B3	12
129	I.C5H12.100L.C	PWS-073-IR-HC	100	%DGW	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A0	B0	12
130	I.C8H10.100L.C	PWS-073-IR-HC	Xylene	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
131	I.CH3COCH3.100L.C	PWS-073-IR-HC	Acetone	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
132	I.C2H5OH.100L.C	PWS-073-IR-HC	Ethyl alcohol	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
133	I.C6H14.100L.C	PWS-073-IR-HC	Hexane	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
134	I.C3H8O.100L.C	PWS-073-IR-HC	Isopropanol	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
135	I.CH3OH.100L.C	PWS-073-IR-HC	Methyl alcohol	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
136	I.C4H8O2.100L.C	PWS-073-IR-HC	Ethyl acetate	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
137	I.C6H12O2.100L.C	PWS-073-IR-HC	Butyl acetate	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
138	I.PB95_98.100L.C	PWS-073-IR-HC	Petrol 95_98	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
139	I.C7H8.100L.C	PWS-073-IR-HC	Toluene	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
140	I.ON.100L.C	PWS-073-IR-HC	Diesel	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
141	I.C4H10O2.100L.C	PWS-073-IR-HC	1-Metoxy 2-propanol	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
142	I.C7-8H16-18.100L.C.Y	PWS-073-IR-HC	Benzine	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
143	I.C3H4O2.100L.C	PWS-073-IR-HC	Acrylic acid	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B3	12
144	I.C2H5OC2H5.100L.C	PWS-073-IR-HC	Diethyl ether	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B3	12
145	I.C4H8O.100L.C	PWS-073-IR-HC	2-Butanone (methyl ethyl ketone)	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
146	I.C12H26.100L.C.Y	PWS-073-IR-HC	2,2,4,6,6-Pentamethylheptane	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
147	I.C8H8.100L.C	PWS-073-IR-HC	Styrene	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
148	I.C3H6Cl2.100L.C.Y	PWS-073-IR-HC	1,2-dichloropropane	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
149	I.C5H10.100L.C.Y	PWS-073-IR-HC	Cyclopentane	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
150	I.C4H10.100L.C	PWS-073-IR-HC	Isobutane	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload. Calibration gas purchase required	●	●		●	●				●				FL = 91; HL = 112;	A0	B0	12

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											Gas Detector			Measuring head												
ID	MC code	Sensor code	Gas name	Range	Unit	Tamin [°C]	Tamax [°C]	Sensor type	Lifetime / reliability	Additional materials and remarks	SmArtGas 4	ProGas 4	ReAct 4	FL	FL.M	FL.C	FH	FH.M	HL	HH	HR	HW	Response time t_{90} [s]	A	B	Months between calibration
151	I.C2H4O2.100L.C.Y	PWS-073-IR-HC	Methyl formate	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
152	I.C4H10O.100L.C.Y	PWS-073-IR-HC	1-Butanol	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
153	I.C2H4OHC2H5.100L.C.Y	PWS-073-IR-HC	2-Butanol	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
154	I.C7H16.100L.C	PWS-073-IR-HC	N-Heptane	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
155	I.C6H5C2H5.100L.C.Y	PWS-073-IR-HC	Ethylbenzene	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
156	I.C5H10O3.100L.C	PWS-073-IR-HC	Diethyl carbonate	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
157	I.C2H6O.100L.B.Y	PWS-073-IR-HC	Dimethyl ether	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A0	B3	12
158	I.C3H6O2.100L.B.Y	PWS-073-IR-HC	Methyl acetate	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
159	I.C3H7OH.100L.B.Y	PWS-073-IR-HC	1-Propanol	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
160	I.R454B.2000P.A	S-IR-17.27	Refrigerant R454b	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
161	I.R1234ZE.2000P.A	S-IR-17.27	Refrigerant R1234ze	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
162	I.R513A.2000P.A	S-IR-17.27	Refrigerant R513a	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
163	I.C6H12O.100L.A.Y	PWS-073-IR-HC	Methyl isobutyl ketone	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
164	E.O2.25V.C	S-O2-13.01	Oxygen	25	%vol	-40	50	EC	5 years in clean air, SIL2		●	●		●	●				●					A0	B0	12
165	I.R404A.2000P.A	S-IR-17.27	Refrigerant R404a	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
166	I.R449A.2000P.A	S-IR-17.27	Refrigerant R449a	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
167	I.SF6.1000P.C	PWS-073-IR-SF6	Sulfur hexafluoride	1000	ppm	-40	75	IR	SIL 2	Resistance to gas overload.	●	●		●	●				●					A1	B0	12
168	C.HCMIX1P.100L.A	PWS-024-CAT-02.13	Unspecified hydrocabon mixture	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B1	12
169	I.C6H11OH.100L.A.Y	PWS-073-IR-HC	Cyclohexanol	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
170	I.R410A.2000P.A	S-IR-17.27	Refrigerant R410a	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
171	I.C2H6S2.100L.A	PWS-073-IR-HC.BB	Dimethyl Disulfide	100	%LEL	-40	75	IR	SIL 2	Reduced humidity response, resistance to gas overload.	●	●		●	●				●					A2	B2	12
172	I.R134A.2000P.B	S-IR-17.27	Refrigerant R1234yf	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
173	E.C2H4O.20P.B	S-C2H4O-13.01	Ethylene oxide	20	ppm	-20	50	EC	2 years in clean air	Calibration gas purchase required	●	●		●	●				●					A1	B1	12
174	I.N2O.500P.A	S-IR-17.29	Nitrous oxide	500	ppm	-20	40	IR	MTBF: > 5 years	Calibration gas purchase required		●										●		A1	B1	12
175	C.C4H10.100L.B	PWS-024-CAT-02.14	Buthane	100	%LEL	-40	60	PEL	3 years in clean air, SIL 2	Calibration gas purchase required	●	●		●	●				●					A0	B0	12
176	E.CLO2.3P.A	S-CLO2-01.02	Chlorine dioxide	3	ppm	-40	50	EC	3 years in clean air			○	●								●			A2	B1	12
177	E.NO2.10P.A	S-NO2-01.01	Nitrogen dioxide	10	ppm	-40	50	EC	3 years in clean air			●	●								●		HR = 45;	A1	B1	12

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											Gas Detector			Measuring head													
ID	MC code	Sensor code	Gas name	Range	Unit	Tamin [°C]	Tamax [°C]	Sensor type	Lifetime / reliability	Additional materials and remarks	SmArtGas 4	ProGas 4	ReAct 4	FL	FL.M	FL.C	FH	FH.M	HL	HH	HR	HW	Response time t_{90} [s]	A	B	Months between calibration
178	I.C3H6O.100L.A	PWS-073-IR-HC	Propylene oxide	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload. Calibration gas purchase required	●	●		●	●				●					A1	B3	12
179	C.C3H9COH.100L.A.Y	PWS-024-CAT-02.13	Tert-Butanol	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
180	I.R1234YF.2000P.A	S-IR-17.27	Refrigerant R1234yf	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
181	I.R1233ZD.2000P.A	S-IR-17.27	Refrigerant R1233zd	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
182	I.R455A.2000P.A	S-IR-17.27	Refrigerant R455A	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
183	I.R125.2000P.A	S-IR-17.27	Refrigerant R125	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
184	I.R32.2000P.B	S-IR-17.27	Refrigerant R32	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
185	I.CH3CHO.100L.A.Y	PWS-073-IR-HC	Acetaldehyde	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
186	I.CH4.40000P.A.Y	PWS-073-IR-HC	Methane	40000	ppm	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A0	B0	12
187	E.NO2.3_5P.A	S-NO2-04.01	Nitrogen dioxide	3,5	ppm	-30	40	EC	24 months in air	Low noise sensor. Calibration gas purchase required		○	●								●			A1	B1	12
188	I.C9H12.100L.A	PWS-073-IR-HC	Cumene	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
189	C.C9H12.100L.A	PWS-024-CAT-02.13	Cumene	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
190	E.CL2.3P.A	S-Cl2-25.01	Chlorine	3	ppm	-20	40	EC	2 years in clean air			○	●								●			A2	B1	12
191	I.C4H6.100L.A.Y	PWS-073-IR-HC	Butadiene	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A1	B2	12
192	I.C3H6O3.100L.A	PWS-073-IR-HC	Dimethyl carbonate	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
193	C.C7H16.100L.A	PWS-024-CAT-02.13	Heptane	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
194	C.C5H13N.100L.A	PWS-024-CAT-02.13	Dimethyl Propylamine	100	%LEL	-40	70	PEL	5 years in clean air, SIL2		●	●		●	●				●					A2	B2	12
195	I.C4H10.100L.D.Y	PWS-073-IR-HC	Buthane	100	%LEL	-40	75	IR	>5 years / SIL 2	Resistance to gas overload. Calibration gas purchase required	●	●		●	●				●					A0	B0	12

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