Measurement parameters configuration

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	I.R134a.1000P.A	S-IR-17.19	1 1 1 2-Tetrafluoroethane	1000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload. Calibration gas purchase required		●									●		A1	B0	12
2	I.R1234ze.1000P.A	S-IR-17.20	1 3 3 3-Tetrafluoropropene	1000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload. Calibration gas purchase required		●									●		A1	B1	12
3	I.C4H10O.100L.A	S-IR-08.06	1-Butanol	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
4	C.C4H10O2.100L.A	PWS-024-CAT-02.13	1-Metoxy 2-propanol	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
5	I.C4H10O2.100L.A	S-IR-08.06	1-Metoxy 2-propanol	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
6	I.C3H6Cl2.100L.A	S-IR-08.06	1,2-dichloropropane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
7	C.DME.100L.A	PWS-024-CAT-02.13	1,2-Dimetoxyethane	100	%DGW	-30	70	PEL	5 years		●	●		●	●				●					A2	B3	12
8	I.R1234yF.1000P.A	S-IR-17.11	2 3 3 3-tetrafluoropropene	1000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload. Calibration gas purchase required		●									●		A1	B0	12
9	I.R1234yF.1000P.B	S-IR-17.21	2 3 3 3-tetrafluoropropene	1000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload. Calibration gas purchase required		●									●		A1	B0	12
10	C.C2H4OHC2H5.100L.A	PWS-024-CAT-02.13	2-Butanol	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
11	I.C2H4OHC2H5.100L.A	S-IR-08.06	2-Butanol	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
12	C.C4H8O.100L.A	PWS-024-CAT-02.13	2-Butanone (methyl ethyl ketone)	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
13	I.C4H8O.100L.A	S-IR-08.06	2-Butanone (methyl ethyl ketone)	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
14	C.C6H12O3.100L.A	PWS-024-CAT-02.13	2-Methoxy-1-methylethyl acetate	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
15	C.C4H9OH.100L.A	PWS-024-CAT-02.13	2-Methyl-1-propanol (isobutanol)	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	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
16	C.C12H26.100L.A	PWS-024-CAT-02.13	2,2,4,6,6-Pentamethylheptane	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
17	I.C12H26.100L.A	S-IR-08.06	2,2,4,6,6-Pentamethylheptane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
18	E.CH3COOH.100P.A	S-RCOOH-01.01	Acetic acid	100	ppm	-10	50	EC	2 years in air			○	●								●			A1	B1	12
19	C.CH3COCH3.100L.A	PWS-024-CAT-02.13	Acetone	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B1	12
20	I.CH3COCH3.100L.A	S-IR-08.06	Acetone	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
21	C.C2H3N.100L.A	PWS-024-CAT-02.13	Acetonitrile	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
22	C.C2H2.100L.A	PWS-024-CAT-02.07	Acetylene	100	%LEL	-30	60	PEL	3 years		●	●		●	●				●					A0	B0	12
23	I.C3H4O2.100L.A	S-IR-08.06	Acrylic acid	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B3	12
24	C.C3H3N.100L.A	PWS-024-CAT-02.13	Acrylonitrile	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
25	E.NH3.100P.A	S-NH3-01.01	Ammonia	100	ppm	-10	50	EC	2 years in air	Short response time.	●	●	●	●	●				●		●			A1	B1	12
26	E.NH3.1000P.A	S-NH3-01.02	Ammonia	1000	ppm	-10	40	EC	2 years in air		●	●	●	●	●				●		●			A1	B3	12
27	E.NH3.2000P.A	S-NH3-01.05	Ammonia	2000	ppm	-20	50	EC	2 years in air		●	●	●	●	●				●		●			A1	B3	12
28	C.NH3.30000P.A	PWS-024-CAT-19.02	Ammonia	30000	ppm	-20	40	PEL		Calibration gas purchase required	●	●		●	●				●					A1	B3	12
29	C.NH3.100L.A	PWS-024-CAT-02.14	Ammonia	100	%LEL	-30	60	PEL	3 years		●	●		●	●				●					A1	B3	12
30	E.NH3.100P.D	S-NH3-13.01	Ammonia	100	ppm	-40	50	EC	2 years in clean air		●	●	●	●	●				●		●			A1	B1	12
31	E.NH3.100P.E	S-NH3-13.02	Ammonia	100	ppm	-40	40	EC	5 years in clean air		●	●	●	●	●				●		●		HR = 95;	A1	B1	12
32	E.NH3.1000P.C	S-NH3-13.03	Ammonia	1000	ppm	-40	50	EC	2 years in clean air		●	●	●	●	●				●		●			A1	B3	12
33	E.NH3.2000P.B	S-NH3-13.04	Ammonia	2000	ppm	-40	50	EC	2 years in clean air		●	●	●	●	●				●		●		FL = 63; HL = 43; HR = 73;	A1	B3	12
34	E.NH3.600P.B	S-NH3-13.03	Ammonia	600	ppm	-40	50	EC	2 years in clean air		●	●	●	●	●				●		●			A1	B3	12
35	E.NH3.300P.A	S-NH3-13.05	Ammonia	300	ppm	-40	50	EC	2 years in clean air		●	●	●	●	●				●		●			A1	B1	12
36	E.NH3.200P.A	S-NH3-21.02	Ammonia	200	ppm	-40	50	EC	2 years in air		●	●	●	●	●				●		●			A1	B1	12
37	E.NH3.200P.B	S-NH3-13.06	Ammonia	200	ppm	-40	40	EC	5 years in clean air		●	●	●	●	●				●		●			A1	B1	12
38	E.NH3.500P.A	S-NH3-13.03	Ammonia	500	ppm	-40	50	EC	2 years in clean air		●	●	●	●	●				●		●			A1	B3	12
39	E.NH3.500P.B	S-NH3-13.07	Ammonia	500	ppm	-40	40	EC	5 years in clean air		●	●	●	●	●				●		●			A1	B3	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
40	E.AsH3.1P.A	S-AsH3-25.01	Arsine	1	ppm	-40	40	EC	18 months in air	Calibration gas purchase required		○	●								●			A1	B2	6
41	C.C9-19H20-34.100L.A	PWS-024-CAT-02.13	Aviation fuel	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B1	12
42	C.C6H6.100L.A	PWS-024-CAT-02.13	Benzene	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B3	12
43	C.C7-8H16-18.100L.A	PWS-024-CAT-02.13	Benzine	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B1	12
44	I.C7-8H16-18.100L.A	S-IR-08.06	Benzine	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
45	E.Br2.1P.A	S-Cl2-25.01	Bromine	1	ppm	-20	40	EC	2 years in air			○	●								●			A2	B1	12
46	C.C4H6.100L.A	PWS-024-CAT-02.13	Butadiene	100	%LEL	-30	70	PEL	5 years	Calibration gas purchase required	●	●		●	●				●					A1	B2	12
47	C.C6H12O2.100L.A	PWS-024-CAT-02.13	Butyl acetate	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
48	I.C6H12O2.100L.A	S-IR-08.06	Butyl acetate	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
49	C.C4H10O.100L.A	PWS-024-CAT-02.13	Butyl alcohol	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
50	I.CO2.5V.A	S-IR-08.08	Carbon dioxide	5	%vol	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●				HL = 67;	A0	B1	12
51	I.CO2.100V.A	S-IR-08.09	Carbon dioxide	100	%vol	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A0	B3	12
52	I.CO2.25V.A	S-IR-08.09	Carbon dioxide	25	%vol	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A0	B1	12
53	I.CO2.2000P.A	S-IR-08.08	Carbon dioxide	2000	ppm	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A0	B1	12
54	I.CO2.5000P.A	S-IR-08.08	Carbon dioxide	5000	ppm	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A0	B1	12
55	E.CO.200P.A	S-CO-01.01	Carbon monoxide	200	ppm	-20	45	EC	3 years in air		●	●		●	●				●				FL = 35; FL.M = 35; HL = 35;	A0	B1	12
56	E.CO.200P.B	S-CO-01.07	Carbon monoxide	200	ppm	-40	50	EC	3 years in air	Low hydrogen cross-sensitivity.	●	●		●	●				●					A0	B1	12
57	E.CO.1000P.A	S-CO-01.02	Carbon monoxide	1000	ppm	-20	45	EC	3 years in air		●	●		●	●				●					A0	B1	12
58	E.CO.1000P.B	S-CO-01.03	Carbon monoxide	1000	ppm	-20	40	EC	3 years in air	Low hydrogen cross-sensitivity.	●	●		●	●				●					A0	B1	12
59	E.CO.500P.A	S-CO-01.10	Carbon monoxide	500	ppm	-40	50	EC	3 years in air	Low hydrogen cross-sensitivity.	●	●	●	●	●				●		●			A0	B1	12
60	E.CO.100P.A	S-CO-01.01	Carbon monoxide	100	ppm	-20	45	EC	3 years in air		●	●		●	●				●				FL = 35; FL.M = 35; HL = 35;	A0	B1	12
61	E.CO.5000P.A	S-CO-01.04	Carbon monoxide	5000	ppm	-20	40	EC	3 years in air	Low hydrogen cross-sensitivity.	●	●		●	●				●					A0	B2	12
62	E.CO.600P.A	S-CO-01.02	Carbon monoxide	600	ppm	-20	45	EC	3 years in air		●	●		●	●				●					A0	B1	12
63	E.CO.4000P.A	S-CO-01.08	Carbon monoxide	4000	ppm	-20	40	EC	3 years in air	Low hydrogen cross-sensitivity.	●	●	●	●	●				●		●			A0	B2	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
64	E.CO.50P.A	S-CO-01.01	Carbon monoxide	50	ppm	-20	45	EC	3 years in air		●	●		●	●				●				FL = 35; FL.M = 35; HL = 35;	A0	B1	12
65	E.CO.2000P.A	S-CO-01.06	Carbon monoxide	2000	ppm	-40	50	EC	3 years in air	Calibration gas purchase required	●	●	●	●	●				●		●			A0	B2	12
66	E.CO.300P.A	S-CO-01.10	Carbon monoxide	300	ppm	-40	50	EC	3 years in air	Low hydrogen cross-sensitivity.	●	●	●	●	●				●		●			A0	B1	12
67	E.CL2.2P.D	S-Cl2-25.01	Chlorine	2	ppm	-20	40	EC	2 years in air			○	●								●			A2	B1	12
68	E.CL2.10P.B	S-Cl2-25.01	Chlorine	10	ppm	-20	40	EC	2 years in air			○	●								●			A2	B1	12
69	E.CLO2.5P.A	S-CLO2-01.02	Chlorine dioxide	5	ppm	-40	50	EC	2 years in air			○	●								●			A2	B1	12
70	E.CLO2.1P.C	S-CLO2-25.01	Chlorine dioxide	1	ppm	-20	40	EC	24 months in air			○	●								●			A2	B1	12
71	C.C6H10O.100L.A	PWS-024-CAT-02.13	Cyclohexanone	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B1	12
72	C.C5H10.100L.A	PWS-024-CAT-02.13	Cyclopentane	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
73	I.C5H10.100L.A	S-IR-08.06	Cyclopentane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
74	I.ON.100L.A	S-IR-08.06	Diesel	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
75	C.ON.100L.A	PWS-024-CAT-02.13	Diesel	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B1	12
76	I.C2H5OC2H5.100L.A	S-IR-08.06	Diethyl ether	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B3	12
77	C.C2H5OC2H5.100L.A	PWS-024-CAT-02.13	Diethyl ether	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B3	12
78	C.C5H14N2.100L.A	PWS-024-CAT-02.13	Dimethylaminopropylamine	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
79	C.C4H8O2.100L.A	PWS-024-CAT-02.13	Ethyl acetate	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
80	I.C4H8O2.100L.A	S-IR-08.06	Ethyl acetate	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
81	C.C2H5OH.100L.A	PWS-024-CAT-02.13	Ethyl alcohol	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●				FL = 25; HL = 35;	A2	B2	12
82	I.C2H5OH.100L.A	S-IR-08.06	Ethyl alcohol	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
83	E.C2H5OH.100P.A	S-Alc-01.01	Ethyl alcohol	100	ppm	-40	50	EC	2 years in air	Above 35C possible high zero drift (approx. 10 ppm); high CO cross-sensitivity.	●	●	●	●	●				●		●			A0	B0	12
84	C.C6H5C2H5.100L.A	PWS-024-CAT-02.13	Ethylbenzene	100	%DGW	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
85	I.C6H5C2H5.100L.A	S-IR-08.06	Ethylbenzene	100	%DGW	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
86	C.C2H4.100L.A	PWS-024-CAT-02.14	Ethylene (Ethene)	100	%LEL	-30	60	PEL	3 years		●	●		●	●				●					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
87	E.C2H4O.20P.A	S-C2H4O-01.01	Ethylene oxide	20	ppm	-20	50	EC	2 years in air	Calibration gas purchase required	●	●		●	●				●				FL = 110; FL.M = 90; HL = 115;	A1	B1	12
88	C.C2H4O.100L.A	PWS-024-CAT-02.14	Ethylene oxide	100	%LEL	-30	60	PEL	3 years	Calibration gas purchase required	●	●		●	●				●					A1	B3	12
89	I.C2H4O.100L.A	S-IR-08.06	Ethylene oxide	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload. Calibration gas purchase required	●	●		●	●				●					A1	B3	12
90	E.F2.1P.A	S-F2-25.01	Fluorine	1	ppm	-20	40	EC	18 months in air			○	●								●			A2	B1	12
91	E.CH2O.10P.A	S-CH2O-01.01	Formaldehyde (methanal)	10	ppm	-40	50	EC	3 years in air	Calibration gas purchase required	●	●	●	●	●				●		●			A3	B3	12
92	E.CH2O2.80P.A	S-RCOOH-01.01	Formic acid	80	ppm	-10	50	EC	2 years in air			○	●								●			A1	B1	12
93	C.C6H14.100L.A	PWS-024-CAT-02.13	Hexane	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
94	I.C6H14.100L.A	S-IR-08.06	Hexane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
95	E.H2.1000P.A	S-H2-01.03	Hydrogen	1000	ppm	-20	50	EC	2 years in air		●	●		●	●				●					A0	B0	12
96	C.H2.100L.A	PWS-024-CAT-02.14	Hydrogen	100	%LEL	-30	60	PEL	3 years		●	●		●	●	●			●				FL = 9; HL = 19;	A0	B0	12
97	E.H2.10000P.A	S-H2-01.09	Hydrogen	10000	ppm	-40	50	EC	2 years in air		●	●		●	●				●					A0	B0	12
98	E.H2.40000P.A	S.H2.01.07	Hydrogen	40000	ppm	-40	50	EC	2 years in air		●	●		●	●				●					A0	B0	12
99	C.H2.100L.B	PWS-024-CAT-02.15	Hydrogen	100	%LEL	-30	60	PEL	3 years		●	●		●	●	●			●					A0	B0	12
100	E.HCL.20P.B	S-HCL-01.01	Hydrogen chloride	20	ppm	-20	50	EC	2 years in air			○	●								●			A1	B1	12
101	E.HCL.15P.B	S-HCL-01.01	Hydrogen chloride	15	ppm	-20	50	EC	2 years in air			○	●								●			A1	B1	12
102	E.HCL.200P.A	S-HCL-01.02	Hydrogen chloride	200	ppm	-20	50	EC	2 years in air	Calibration gas purchase required		○	●								●			A2	B2	12
103	E.HCL.15P.C	S-HCL-25.01	Hydrogen chloride	15	ppm	-20	40	EC	24 months in air			○	●								●			A2	B2	12
104	E.HCL.20P.C	S-HCL-25.01	Hydrogen chloride	20	ppm	-20	40	EC	24 months in air			○	●								●			A2	B2	12
105	E.HCN.10P.B	S-HCN-13.01	Hydrogen cyanide	10	ppm	-20	50	EC	2 years in clean air			○	●								●			A1	B1	12
106	E.HF.10P.B	S-HF-25.01	Hydrogen fluoride	10	ppm	-20	40	EC	18 months in air	Calibration gas purchase required		○	●								●			A1	B1	12
107	E.H2O2.2000P.A	S-H2O2-01.03	Hydrogen peroxide	2000	ppm	-20	50	EC	2 years in air	Calibration gas purchase required		○	●								●			A1	B3	12
108	E.H2O2.100P.A	S-H2O2-01.01	Hydrogen peroxide	100	ppm	-20	50	EC	2 years in air	Calibration gas purchase required		○	●								●			A1	B3	12
109	E.H2S.50P.A	S-H2S-01.01	Hydrogen sulfide	50	ppm	-40	50	EC	2 years in air		●	●	●	●	●				●		●		FL = 40; FL.M = 45; HL = 50; HR = 30;	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
110	E.H2S.200P.A	S-H2S-01.02	Hydrogen sulfide	200	ppm	-40	50	EC	2 years in air		●	○	●	●	●				●		●			A1	B1	12
111	E.H2S.20P.A	S-H2S-01.01	Hydrogen sulfide	20	ppm	-40	50	EC	2 years in air		●	●	●	●	●				●		●		FL = 40; FL.M = 45; HL = 50; HR = 30;	A1	B1	12
112	E.H2S.1000P.A	S-H2S-01.03	Hydrogen sulfide	1000	ppm	-20	50	EC	2 years in air	Calibration gas purchase required	●	○	●	●	●				●		●			A1	B3	12
113	E.H2S.200P.B	S-H2S-13.01	Hydrogen sulfide	200	ppm	-40	50	EC	2 years in clean air		●	○	●	●	●				●		●		HL = 35;	A1	B1	12
114	E.H2S.100P.B	S-H2S-01.14	Hydrogen sulfide	100	ppm	-40	50	EC	2 years in air	Biogas, manhole.	●	○	●	●	●				●		●			A2	B1	12
115	C.C4H10.100L.A	PWS-024-CAT-02.14	Isobutane	100	%LEL	-30	60	PEL	3 years		●	●		●	●				●					A0	B0	12
116	I.C4H10.100L.A	S-IR-08.06	Isobutane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A0	B0	12
117	C.C3H8O.100L.A	PWS-024-CAT-02.13	Isopropanol	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
118	I.C3H8O.100L.A	S-IR-08.06	Isopropanol	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
119	C.C5H10O2.100L.A	PWS-024-CAT-02.13	Isopropyl alcohol	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
120	C.OO.100L.A	PWS-024-CAT-02.13	Light fuel oil	100	%DGW	-30	70	PEL	5 years		●	●		●	●				●					A2	B1	12
121	C.CH4.100L.A	PWS-024-CAT-02.14	Methane	100	%LEL	-30	60	PEL	3 years		●	●		●	●	●			●				FL = 13;	A0	B0	12
122	I.CH4.100L.A	S-IR-08.06	Methane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●	●			●					A0	B0	12
123	I.CH4.10000P.A	S-IR-08.06	Methane	10000	ppm	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A0	B0	12
124	C.CH4.100L.B	PWS-024-CAT-02.15	Methane	100	%LEL	-30	60	PEL	3 years		●	●		●	●	●			●					A0	B0	12
125	C.CH3OH.100L.A	PWS-024-CAT-02.13	Methyl alcohol	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
126	I.CH3OH.100L.A	S-IR-08.06	Methyl alcohol	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
127	E.CH3OH.100P.A	S-Alc-01.01	Methyl alcohol	100	ppm	-40	50	EC	2 years in air	Above 35C possible high zero drift (approx. 10 ppm); high CO cross-sensitivity.	●	●	●	●	●				●		●			A2	B2	12
128	I.C2H4O2.100L.A	S-IR-08.06	Methyl formate	100	%DGW	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
129	C.C5H8O2.100L.A	PWS-024-CAT-02.13	Methyl methacrylate	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
130	C.C4OH8.100L.A	PWS-024-CAT-02.13	n-Butylene oxide -1,2 (1,2-Epoxybutane)	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B3	12
131	I.C7H16.100L.A	S-IR-08.06	N-Heptane	100	%DGW	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
132	E.NO.25P.A	S-NO-01.01	Nitric oxide	25	ppm	-20	45	EC	3 years in air			●	●								●			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
133	E.NO.100P.A	S-NO-01.02	Nitric oxide	100	ppm	-20	45	EC	2 years in air			●	●								●			A1	B1	12
134	E.NO.2000P.A	S-NO-01.04	Nitric oxide	2000	ppm	-40	50	EC	3 years in air	Calibration gas purchase required		●	●								●			A1	B2	12
135	E.NO2.20P.A	S-NO2-01.01	Nitrogen dioxide	20	ppm	-40	50	EC	2 years in air			●	●								●		HR = 45;	A1	B1	12
136	E.NO2.500P.A	S-NO2-01.02	Nitrogen dioxide	500	ppm	-40	50	EC	2 years in air	Calibration gas purchase required		●	●								●			A1	B2	12
137	C.C9H20.100L.A	PWS-024-CAT-02.13	Nonane	100	%DGW	-30	70	PEL	5 years		●	●		●	●				●				FL = 90; HL = 100;	A2	B1	12
138	E.O2.25V.B	S-O2-21.01	Oxygen	25	%vol	-30	40	EC	2 years in air		●	●		●	●				●					A0	B0	12
139	E.O3.3P.A	S-O3-01.01	Ozone	3	ppm	-20	50	EC	2 years in air			●	●								●			A2	B2	12
140	E.O3.1P.C	S-O3-25.01	Ozone	1	ppm	-20	40	EC	18 months in air	Do not use with H2S.		●	●								●			A2	B2	12
141	C.C5H12.100L.A	PWS-024-CAT-02.13	Pentane	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A0	B0	12
142	I.C5H12.100L.A	S-IR-08.06	Pentane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A0	B0	12
143	C.PB98.100L.A	PWS-024-CAT-02.13	Petrol 98	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B1	12
144	I.PB98.100L.A	S-IR-08.06	Petrol 98	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B1	12
145	E.PH3.5P.A	S-PH3-01.01	Phosphane	5	ppm	-40	50	EC	2 years in air	Calibration gas purchase required		○	●								●			A1	B2	6
146	C.C3H8.100L.A	PWS-024-CAT-02.14	Propane	100	%LEL	-30	60	PEL	3 years		●	●		●	●				●				FL = 17;	A0	B0	12
147	I.C3H8.100L.A	S-IR-08.06	Propane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A0	B0	12
148	C.C3H8.80L.A	PWS-024-CAT-02.14	Propane	80	%LEL	-30	60	PEL	3 years		●	●		●	●				●				FL = 17;	A0	B0	12
149	C.C3H6.100L.A	PWS-024-CAT-02.14	Propylene	100	%LEL	-30	60	PEL	3 years	Calibration gas purchase required	●	●		●	●				●					A0	B1	12
150	C.C3H6O.100L.A	PWS-024-CAT-02.14	Propylene oxide	100	%LEL	-30	60	PEL	3 years	Calibration gas purchase required	●	●		●	●				●					A1	B3	12
151	I.R32.2000P.A	S-IR-17.23	Refrigerant R32	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
152	I.R410a.1000P.A	S-IR-17.22	Refrigerant R410A	1000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
153	I.R448a.2000P.A	S-IR-17.26	Refrigerant R448A	2000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload. Calibration gas purchase required		●										●		A1	B0	12
154	I.R507.1000P.B	S-IR-17.25	Refrigerant R507A	1000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload. Calibration gas purchase required		●										●		A1	B0	12
155	E.SiH4.50P.A	S-SiH4-01.02	Silane	50	ppm	-20	50	EC	2 years in air	Calibration gas purchase required		○	●								●			A1	B2	12
156	C.C8H8.100L.A	PWS-024-CAT-02.13	Styrene	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	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
157	I.C8H8.100L.A	S-IR-08.06	Styrene	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
158	I.SF6.1000P.B	S-IR-17.24	Sulfur hexafluoride	1000	ppm	-20	40	IR	MTBF: > 5 years	Resistance to gas overload.		●										●		A1	B0	12
159	E.SO2.5P.A	S-SO2-01.01	Sulphur dioxide	5	ppm	-20	45	EC	2 years in air			●	●								●			A1	B1	12
160	E.SO2.20P.A	S-SO2-01.01	Sulphur dioxide	20	ppm	-20	45	EC	2 years in air			●	●								●			A1	B1	12
161	E.SO2.2000P.A	S-SO2-01.05	Sulphur dioxide	2000	ppm	-20	50	EC	2 years in air	Calibration gas purchase required		●	●								●			A1	B3	12
162	C.C7H8.100L.A	PWS-024-CAT-02.13	Toluene	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
163	I.C7H8.100L.A	S-IR-08.06	Toluene	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12
164	P.C4H8.1P.A	S-PID-13.11	VOC Isobutylene	1	ppm	-20	60	PID	Lamp Life < 18 months	Detects substances with ionization energy <10.6eV.	●	●					●	●		●				A0	B0	6
165	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
166	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
167	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
168	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
169	C.C8H10.100L.A	PWS-024-CAT-02.13	Xylene	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●					A2	B2	12
170	I.C8H10.100L.A	S-IR-08.06	Xylene	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●					A2	B2	12