








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 <sub>90</sub> [s]	A	B	Months between calibration				
														FL	FL.M	FL.C	FH	FL.M	HL	HH	HR					HW			
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-CI2-25.01	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.	●	●		●	●												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		●	●		●	●												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		●	●		●	●												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
64	E.CO.50P.A	S-CO-01.01	Carbon monoxide	50	ppm	-20	45	EC	3 years in air		●	●		●	●												A0	B1	12



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 <sub>90</sub> [s]	A	B	Months between calibration				
											SmArtGas 4	ProGas 4	ReAct 4	FL	FL.M	FL.C	FH	FH.M	HL	HH	HR					HW			
89	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	
90	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
91	E.F2.1P.A	S-F2-25.01	Fluorine	1	ppm	-20	40	EC	18 months in air			○	●														A2	B1	12
92	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
93	E.CH2O2.80P.A	S-RCOOH-01.01	Formic acid	80	ppm	-10	50	EC	2 years in air			○	●														A1	B1	12
94	C.C6H14.100L.A	PWS-024-CAT-02.13	Hexane	100	%LEL	-30	70	PEL	5 years		●	●		●	●												A2	B2	12
95	I.C6H14.100L.A	S-IR-08.06	Hexane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●												A2	B2	12
96	E.H2.1000P.A	S-H2-01.03	Hydrogen	1000	ppm	-20	50	EC	2 years in air		●	●		●	●												A0	B0	12
97	C.H2.100L.A	PWS-024-CAT-02.14	Hydrogen	100	%LEL	-30	60	PEL	3 years		●	●		●	●	●								FL = 9; HL = 19;			A0	B0	12
98	E.H2.10000P.A	S-H2-01.09	Hydrogen	10000	ppm	-40	50	EC	2 years in air		●	●		●	●												A0	B0	12
99	E.H2.40000P.A	S.H2.01.07	Hydrogen	40000	ppm	-40	50	EC	2 years in air		●	●		●	●												A0	B0	12
100	E.HCL.15P.B	S-HCL-01.01	Hydrogen chloride	15	ppm	-20	50	EC	2 years in air			○	●														A1	B1	12
101	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
102	E.HCL.15P.C	S-HCL-25.01	Hydrogen chloride	15	ppm	-20	40	EC	24 months in air			○	●														A2	B2	12
103	E.HCL.20P.C	S-HCL-25.01	Hydrogen chloride	20	ppm	-20	40	EC	24 months in air			○	●														A2	B2	12
104	E.HCN.10P.C	S-HCN-25.01	Hydrogen cyanide	10	ppm	-40	40	EC	18 months in air			○	●														A1	B1	12
105	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
106	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
107	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
108	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
109	E.H2S.200P.A	S-H2S-01.02	Hydrogen sulfide	200	ppm	-40	50	EC	2 years in air		●	○	●	●	●												A1	B1	12
110	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
111	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

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	FLM	FLC	FH	FHM	HL	HH	HR					HW		
112	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
113	E.H2S.100P.B	S-H2S-01.14	Hydrogen sulfide	100	ppm	-40	50	EC	2 years in air	Biogas, manhole.	●	○	●	●	●											A2	B1	12
114	C.C4H10.100L.A	PWS-024-CAT-02.14	Isobutane	100	%LEL	-30	60	PEL	3 years		●	●		●	●											A0	B0	12
115	I.C4H10.100L.A	S-IR-08.06	Isobutane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●											A0	B0	12
116	C.C3H8O.100L.A	PWS-024-CAT-02.13	Isopropanol	100	%LEL	-30	70	PEL	5 years		●	●		●	●											A2	B2	12
117	I.C3H8O.100L.A	S-IR-08.06	Isopropanol	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●											A2	B2	12
118	C.C5H10O2.100L.A	PWS-024-CAT-02.13	Isopropyl alcohol	100	%LEL	-30	70	PEL	5 years		●	●		●	●											A2	B2	12
119	C.OO.100L.A	PWS-024-CAT-02.13	Light fuel oil	100	%DGW	-30	70	PEL	5 years		●	●		●	●											A2	B1	12
120	C.CH4.100L.A	PWS-024-CAT-02.14	Methane	100	%LEL	-30	60	PEL	3 years		●	●		●	●	●								FL = 13;	A0	B0	12	
121	I.CH4.100L.A	S-IR-08.06	Methane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●	●										A0	B0	12
122	I.CH4.10000P.A	S-IR-08.06	Methane	10000	ppm	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●											A0	B0	12
123	C.CH3OH.100L.A	PWS-024-CAT-02.13	Methyl alcohol	100	%LEL	-30	70	PEL	5 years		●	●		●	●											A2	B2	12
124	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
125	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
126	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
127	C.C5H8O2.100L.A	PWS-024-CAT-02.13	Methyl methacrylate	100	%LEL	-30	70	PEL	5 years		●	●		●	●											A2	B2	12
128	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
129	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
130	E.NO.25P.A	S-NO-01.01	Nitric oxide	25	ppm	-20	45	EC	3 years in air			●	●													A1	B1	12
131	E.NO.100P.A	S-NO-01.02	Nitric oxide	100	ppm	-20	45	EC	2 years in air			●	●													A1	B1	12
132	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
133	E.NO2.20P.A	S-NO2-01.01	Nitrogen dioxide	20	ppm	-40	50	EC	2 years in air			●	●											HR = 45;	A1	B1	12	
134	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
135	C.C9H20.100L.A	PWS-024-CAT-02.13	Nonane	100	%DGW	-30	70	PEL	5 years		●	●		●	●									FL = 90; HL = 100;	A2	B1	12	
136	E.O2.25V.B	S-O2-21.01	Oxygen	25	%vol	-30	40	EC	2 years in air		●	●		●	●											A0	B0	12

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 <sub>90</sub> [s]	A	B	Months between calibration					
											SmArtGas 4	ProGas 4	ReAct 4	FL	FLM	FLC	FH	FHM	HL	HH	HR					HW				
137	E.O3.3P.A	S-O3-01.01	Ozone	3	ppm	-20	50	EC	2 years in air		●	●														A2	B2	12		
138	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	
139	C.C5H12.100L.A	PWS-024-CAT-02.13	Pentane	100	%LEL	-30	70	PEL	5 years		●	●		●	●					●							A0	B0	12	
140	I.C5H12.100L.A	S-IR-08.06	Pentane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●					●							A0	B0	12	
141	C.PB98.100L.A	PWS-024-CAT-02.13	Petrol 98	100	%LEL	-30	70	PEL	5 years		●	●		●	●					●							A2	B1	12	
142	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	
143	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	
144	C.C3H8.100L.A	PWS-024-CAT-02.14	Propane	100	%LEL	-30	60	PEL	3 years		●	●		●	●					●				FL = 17;			A0	B0	12	
145	I.C3H8.100L.A	S-IR-08.06	Propane	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●					●							A0	B0	12	
146	C.C3H8.80L.A	PWS-024-CAT-02.14	Propane	80	%LEL	-30	60	PEL	3 years		●	●		●	●					●				FL = 17;			A0	B0	12	
147	C.C3H6.100L.A	PWS-024-CAT-02.14	Propylene	100	%LEL	-30	60	PEL	3 years	Calibration gas purchase required	●	●		●	●					●							A0	B1	12	
148	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	
149	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	
150	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
151	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
152	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
153	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	
154	C.C8H8.100L.A	PWS-024-CAT-02.13	Styrene	100	%LEL	-30	70	PEL	5 years		●	●		●	●					●								A2	B2	12
155	I.C8H8.100L.A	S-IR-08.06	Styrene	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●					●								A2	B2	12
156	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
157	E.SO2.5P.A	S-SO2-01.01	Sulphur dioxide	5	ppm	-20	45	EC	2 years in air			●	●															A1	B1	12
158	E.SO2.20P.A	S-SO2-01.01	Sulphur dioxide	20	ppm	-20	45	EC	2 years in air			●	●															A1	B1	12
159	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
160	C.C7H8.100L.A	PWS-024-CAT-02.13	Toluene	100	%LEL	-30	70	PEL	5 years		●	●		●	●					●								A2	B2	12
161	I.C7H8.100L.A	S-IR-08.06	Toluene	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●					●								A2	B2	12

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											 SmartGas 4	 ProGas 4	 ReAct 4	FL	FLM	FLC	FH	FHM	HL	HH	HR					HW			
162	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	
163	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
164	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
165	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
166	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
167	C.C8H10.100L.A	PWS-024-CAT-02.13	Xylene	100	%LEL	-30	70	PEL	5 years		●	●		●	●				●								A2	B2	12
168	I.C8H10.100L.A	S-IR-08.06	Xylene	100	%LEL	-40	75	IR	MTBF: > 5 years	Resistance to gas overload.	●	●		●	●				●								A2	B2	12