

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 | | | | | | | | A | B | Months between calibration | | | | | |
|----|---------------------|-------------------|----------------------------------|-------|------|------------|------------|-------------|------------------------|---|---------------------------|------------------------|-----------------------|----------------|-----|-----|----|-----|----|----|----|---|---|----------------------------|----|----|----|----|----|
| | | | | | | | | | | | SimArtGas 4 ● ○ | ProGas 4 ● ○ | React 4 ● ○ | FL | FLM | FLC | FH | FHM | 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 | | ● | | | | | | | | | | | ● | 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 | | ● | | | | | | | | | | | ● | A1 | B1 | 12 | | | |
| 3 | I.C4H100.100L.A | S-IR-08.06 | 1-Butanol | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | | | | | | | A2 | B2 | 12 | |
| 4 | C.C4H1002.100L.A | PWS-024-CAT-02.13 | 1-Metoxy 2-propanol | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | | A2 | B2 | 12 |
| 5 | I.C4H1002.100L.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 | 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 | | ● | | | | | | | | | | | | ● | A1 | B0 | 12 | | |
| 8 | 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 | | | |
| 9 | C.C2H4OHC2H5.100L.A | PWS-024-CAT-02.13 | 2-Butanol | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | | A2 | B2 | 12 |
| 10 | 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 |
| 11 | C.C4H8O.100L.A | PWS-024-CAT-02.13 | 2-Butanone (methyl ethyl ketone) | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | | A2 | B2 | 12 |
| 12 | 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 |
| 13 | C.C6H12O3.100L.A | PWS-024-CAT-02.13 | 2-Methoxy-1-methylethyl acetate | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | | A2 | B2 | 12 |
| 14 | C.C4H9OH.100L.A | PWS-024-CAT-02.13 | 2-Methyl-1-propanol (isobutanol) | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | | A2 | B2 | 12 |
| 15 | 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 |
| 16 | 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 |
| 17 | E.CH3COOH.100P.A | S-RCOOH-01.01 | Acetic acid | 100 | ppm | -10 | 50 | EC | 2 years in air | | | ○ | ● | | | | | | | | | | | ● | A1 | 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 | | | | | | | | A | B | Months between calibration | | | |
|----|-------------------|-------------------|---------------|-------|------|------------|------------|-------------|------------------------|--|--------------|----------|---------|----------------|-----|-----|----|-----|----|----|----|---|---|----------------------------|----|----|----|
| | | | | | | | | | | | SmArtGas 4 | ProGas 4 | ReAct 4 | FL | FLM | FLC | FH | FHM | HL | HH | HR | | | | HW | | |
| 18 | C.CH3COCH3.100L.A | PWS-024-CAT-02.13 | Acetone | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | A2 | B1 | 12 |
| 19 | I.CH3COCH3.100L.A | S-IR-08.06 | Acetone | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | | | | | | A2 | B1 | 12 |
| 20 | C.C2H3N.100L.A | PWS-024-CAT-02.13 | Acetonitrile | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | A2 | B2 | 12 |
| 21 | C.C2H2.100L.A | PWS-024-CAT-02.07 | Acetylene | 100 | %LEL | -30 | 60 | PEL | | | ● | ● | | ● | ● | | | | | | | | | | A0 | B0 | 12 |
| 22 | 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 |
| 23 | C.C3H3N.100L.A | PWS-024-CAT-02.13 | Acrylonitrile | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | A2 | B2 | 12 |
| 24 | E.NH3.100P.A | S-NH3-01.01 | Ammonia | 100 | ppm | -10 | 50 | EC | 2 years in air | Short response time | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B1 | 12 |
| 25 | E.NH3.100P.B | S-NH3-05.01 | Ammonia | 100 | ppm | -40 | 40 | EC | 18 months in air | Delivery time 3 months Longer response time | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B1 | 12 |
| 26 | E.NH3.100P.C | S-NH3-05.03 | Ammonia | 100 | ppm | -20 | 40 | EC | 24 months in air | Delivery time 3 months | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B1 | 12 |
| 27 | E.NH3.600P.A | S-NH3-05.02 | Ammonia | 600 | ppm | -40 | 40 | EC | 18 months in air | Delivery time 3 months | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B3 | 12 |
| 28 | E.NH3.1000P.A | S-NH3-01.02 | Ammonia | 1000 | ppm | -10 | 40 | EC | 2 years in air | | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B3 | 12 |
| 29 | E.NH3.1000P.B | S-NH3-05.02 | Ammonia | 1000 | ppm | -40 | 40 | EC | 18 months in air | Delivery time 3 months | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B3 | 12 |
| 30 | E.NH3.2000P.A | S-NH3-01.05 | Ammonia | 2000 | ppm | -20 | 50 | EC | 2 years in air | | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B3 | 12 |
| 31 | E.NH3.5000P.A | S-NH3-05.05 | Ammonia | 5000 | ppm | -20 | 40 | EC | 24 months in air | Delivery time 3 months | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B3 | 12 |
| 32 | C.NH3.30000P.A | PWS-024-CAT-19.02 | Ammonia | 30000 | ppm | -20 | 40 | PEL | | | ● | ● | | ● | ● | | | | | | | | | | A1 | B3 | 12 |
| 33 | C.NH3.100L.A | PWS-024-CAT-02.14 | Ammonia | 100 | %LEL | -30 | 60 | PEL | 3 years | | ● | ● | | ● | ● | | | | | | | | | | A1 | B3 | 12 |
| 34 | E.NH3.100P.D | S-NH3-13.01 | Ammonia | 100 | ppm | -20 | 50 | EC | 2 years in clean air | | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B1 | 12 |
| 35 | E.NH3.100P.E | S-NH3-13.02 | Ammonia | 100 | ppm | -40 | 40 | EC | 5 years in clean air | | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B1 | 12 |
| 36 | E.NH3.1000P.C | S-NH3-13.03 | Ammonia | 1000 | ppm | -20 | 40 | EC | 2 years in clean air | | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B3 | 12 |
| 37 | E.NH3.2000P.B | S-NH3-13.04 | Ammonia | 2000 | ppm | -20 | 40 | EC | 2 years in clean air | | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B3 | 12 |
| 38 | E.NH3.600P.B | S-NH3-13.03 | Ammonia | 600 | ppm | -20 | 40 | EC | 2 years in clean air | | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B3 | 12 |
| 39 | E.NH3.300P.A | S-NH3-13.05 | Ammonia | 300 | ppm | -20 | 40 | EC | 2 years in clean air | | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B1 | 12 |
| 40 | E.NH3.300P.B | S-NH3-21.01 | Ammonia | 300 | ppm | -40 | 50 | EC | 2 years in air | Long response time T90 | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B1 | 12 |
| 41 | E.NH3.600P.C | S-NH3-21.01 | Ammonia | 600 | ppm | -40 | 50 | EC | 2 years in air | Long response time T90 | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B3 | 12 |
| 42 | E.NH3.200P.A | S-NH3-21.02 | Ammonia | 200 | ppm | -40 | 50 | EC | 2 years in air | | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B1 | 12 |
| 43 | E.NH3.1000P.D | S-NH3-21.01 | Ammonia | 1000 | ppm | -40 | 50 | EC | 2 years in air | Long response time T90 | ● | ● | ● | ● | ● | | | | | | | | | | 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 | | | | | | | | A | B | Months between calibration | | | | |
|----|----------------------|-------------------|-----------------|-------|------|------------|------------|-------------|------------------------|----------------------------------|--------------|----------|---------|----------------|-----|-----|----|-----|----|----|----|---|---|----------------------------|----|----|----|----|
| | | | | | | | | | | | SmArtGas 4 | ProGas 4 | ReAct 4 | FL | FLM | FLC | FH | FHM | HL | HH | HR | | | | HW | | | |
| 44 | E.NH3.200P.B | S-NH3-13.06 | Ammonia | 200 | ppm | -40 | 40 | EC | 5 years in clean air | | ● | ● | ● | ● | ● | | | | | | | | | | A1 | B1 | 12 | |
| 45 | C.C9-19H20-34.100L.A | PWS-024-CAT-02.13 | Aviation fuel | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | A2 | B1 | 12 |
| 46 | C.C6H6.100L.A | PWS-024-CAT-02.13 | Benzene | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | A2 | B3 | 12 |
| 47 | C.C7-8H16-18.100L.A | PWS-024-CAT-02.13 | Benzine | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | A2 | B1 | 12 |
| 48 | 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 |
| 49 | C.C4H6.100L.A | PWS-024-CAT-02.13 | Butadiene | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | A1 | B2 | 12 |
| 50 | C.C6H12O2.100L.A | PWS-024-CAT-02.13 | Butyl acetate | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | A2 | B2 | 12 |
| 51 | 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 |
| 52 | C.C4H10O.100L.A | PWS-024-CAT-02.13 | Butyl alcohol | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | A2 | B2 | 12 |
| 53 | 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 |
| 54 | 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 |
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | E.CO.200P.A | S-CO-01.01 | Carbon monoxide | 200 | ppm | -20 | 45 | EC | 3 years in air | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B1 | 12 |
| 59 | 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 |
| 60 | E.CO.1000P.A | S-CO-01.02 | Carbon monoxide | 1000 | ppm | -20 | 45 | EC | 3 years in air | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B1 | 12 |
| 61 | 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 |
| 62 | 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 |
| 63 | E.CO.100P.A | S-CO-01.01 | Carbon monoxide | 100 | ppm | -20 | 45 | EC | 3 years in air | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B1 | 12 |
| 64 | 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 |
| 65 | E.CO.600P.A | S-CO-01.02 | Carbon monoxide | 600 | ppm | -20 | 45 | EC | 3 years in air | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B1 | 12 |
| 66 | 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 |
| 67 | E.CO.50P.A | S-CO-01.01 | Carbon monoxide | 50 | ppm | -20 | 45 | EC | 3 years in air | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B1 | 12 |
| 68 | E.CL2.2P.A | S-Cl2-05.01 | Chlorine | 2 | ppm | -20 | 40 | EC | 24 months in air | Delivery time 3 months | | ○ | ● | | | | | | | | | | | | | A2 | 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 | | | | | | | | A | B | Months between calibration | | | | | |
|----|--------------------|-------------------|--------------------------|-------|------|------------|------------|-------------|------------------------|---|--------------|----------|---------|----------------|-----|-----|----|-----|----|----|----|---|---|----------------------------|----|----|----|----|----|
| | | | | | | | | | | | SmArtGas 4 | ProGas 4 | ReAct 4 | FL | FLM | FLC | FH | FHM | HL | HH | HR | | | | HW | | | | |
| 69 | E.CL2.10P.A | S-Cl2-05.01 | Chlorine | 10 | ppm | -20 | 40 | EC | 24 months in air | Delivery time 3 months | | ○ | ● | | | | | | | | | | | | | A2 | B1 | 12 | |
| 70 | E.CLO2.1P.A | S-CIO2-05.02 | Chlorine dioxide | 1 | ppm | -20 | 40 | EC | 24 months in air | Delivery time 3 months | | ● | ● | | | | | | | | | | | | | | A2 | B1 | 12 |
| 71 | E.CLO2.5P.A | S-CLO2-01.02 | Chlorine dioxide | 5 | ppm | -40 | 50 | EC | 2 years in air | | | ○ | ● | | | | | | | | | | | | | | A2 | B1 | 12 |
| 72 | C.C6H100.100L.A | PWS-024-CAT-02.13 | Cyclohexane | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | ● | | | | | | | A2 | B1 | 12 |
| 73 | C.C5H10.100L.A | PWS-024-CAT-02.13 | Cyclopentane | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | ● | | | | | | | A2 | B2 | 12 |
| 74 | I.C5H10.100L.A | S-IR-08.06 | Cyclopentane | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | ● | | | | | | | A2 | B2 | 12 |
| 75 | I.ON.100L.A | S-IR-08.06 | Diesel | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | ● | | | | | | | A2 | B1 | 12 |
| 76 | C.ON.100L.A | PWS-024-CAT-02.13 | Diesel | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | ● | | | | | | | A2 | B1 | 12 |
| 77 | 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 |
| 78 | C.C2H5OC2H5.100L.A | PWS-024-CAT-02.13 | Diethyl ether | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | ● | | | | | | | A2 | B3 | 12 |
| 79 | C.C5H14N2.100L.A | PWS-024-CAT-02.13 | Dimethylaminopropylamine | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | ● | | | | | | | A2 | B2 | 12 |
| 80 | C.C4H8O2.100L.A | PWS-024-CAT-02.13 | Ethyl acetate | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | ● | | | | | | | A2 | B2 | 12 |
| 81 | 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 |
| 82 | C.C2H5OH.100L.A | PWS-024-CAT-02.13 | Ethyl alcohol | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | ● | | | | | | | A2 | B2 | 12 |
| 83 | 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 |
| 84 | E.C2H5OH.100P.A | S-Alc-01.01 | Ethyl alcohol | 100 | ppm | -40 | 50 | EC | 2 years in air | Above 35°C possible high zero drift (approx. 10 ppm); high CO cross-sensitivity | ● | ● | ● | ● | ● | | | | | ● | | ● | | | | | A0 | B0 | 12 |
| 85 | C.C2H4.100L.A | PWS-024-CAT-02.14 | Ethylene (Ethene) | 100 | %LEL | -30 | 60 | PEL | 3 years | | ● | ● | | ● | ● | | | | | ● | | | | | | | A0 | B0 | 12 |
| 86 | E.C2H4O.20P.A | S-C2H4O-01.01 | Ethylene oxide | 20 | ppm | -20 | 50 | EC | 2 years in air | | ● | ● | | ● | ● | | | | | ● | | | | | | | A1 | B1 | 12 |
| 87 | C.C2H4O.100L.A | PWS-024-CAT-02.14 | Ethylene oxide | 100 | %LEL | -30 | 60 | PEL | 3 years | | ● | ● | | ● | ● | | | | | ● | | | | | | | A1 | B3 | 12 |
| 88 | I.C2H4O.100L.A | S-IR-08.06 | Ethylene oxide | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | ● | | | | | | | A1 | B3 | 12 |
| 89 | 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 |
| 90 | E.C2H2O.80P.A | S-RCOOH-01.01 | Formic acid | 80 | ppm | -10 | 50 | EC | 2 years in air | | | ○ | ● | | | | | | | | | | | | | | A1 | B1 | 12 |
| 91 | C.C6H14.100L.A | PWS-024-CAT-02.13 | Hexane | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | ● | | | | | | | A2 | B2 | 12 |
| 92 | I.C6H14.100L.A | S-IR-08.06 | Hexane | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | ● | | | | | | | A2 | B2 | 12 |
| 93 | E.H2.1000P.A | S-H2-01.03 | Hydrogen | 1000 | ppm | -20 | 50 | 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 | | | | | | | | A | B | Months between calibration | | | | |
|-----|------------------|-------------------|-------------------|-------|------|------------|------------|-------------|------------------------|---|--------------|----------|---------|----------------|-----|-----|----|-----|----|----|----|---|---|----------------------------|----|----|----|----|
| | | | | | | | | | | | SmArtGas 4 | ProGas 4 | ReAct 4 | FL | FLM | FLC | FH | FHM | HL | HH | HR | | | | HW | | | |
| 94 | C.H2.100L.A | PWS-024-CAT-02.14 | Hydrogen | 100 | %LEL | -30 | 60 | PEL | 3 years | | ● | ● | | ● | ● | ● | | | | | | | | | A0 | B0 | 12 | |
| 95 | E.H2.10000P.A | S-H2-01.09 | Hydrogen | 10000 | ppm | -40 | 50 | EC | 2 years in air | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B0 | 12 |
| 96 | E.HCL.15P.A | S-HCL-05.01 | Hydrogen chloride | 15 | ppm | -20 | 40 | EC | 24 months in air | Delivery time 3 months | | ○ | ● | | | | | | | | | | | | | A1 | B1 | 12 |
| 97 | E.HCL.20P.A | S-HCL-05.01 | Hydrogen chloride | 20 | ppm | -20 | 40 | EC | 24 months in air | Delivery time 3 months | | ○ | ● | | | | | | | | | | | | | A1 | B1 | 12 |
| 98 | E.HCN.10P.A | S-HCN-05.02 | Hydrogen chloride | 10 | ppm | -40 | 40 | EC | 18 months in air | Delivery time 3 months | | ○ | ● | | | | | | | | | | | | | A1 | B1 | 12 |
| 99 | E.HCL.20P.B | S-HCL-01.01 | Hydrogen chloride | 20 | ppm | -20 | 50 | EC | 2 years in air | | | ○ | ● | | | | | | | | | | | | | A1 | B1 | 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.HCN.10P.B | S-HCN-13.01 | Hydrogen cyanide | 10 | ppm | -20 | 50 | EC | 2 years in clean air | | | ○ | ● | | | | | | | | | | | | | A1 | B1 | 12 |
| 102 | E.HF.10P.A | S-HF-05.01 | Hydrogen fluoride | 10 | ppm | -20 | 40 | EC | 18 months in air | Delivery time 3 months | | ○ | ● | | | | | | | | | | | | | A1 | B1 | 12 |
| 103 | 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 |
| 104 | E.H2S.50P.A | S-H2S-01.01 | Hydrogen sulfide | 50 | ppm | -40 | 50 | EC | 2 years in air | | ● | ● | ● | ● | ● | | | | | | | | | | | A1 | B1 | 12 |
| 105 | E.H2S.200P.A | S-H2S-01.02 | Hydrogen sulfide | 200 | ppm | -40 | 50 | EC | 2 years in air | | ● | ○ | ● | ● | ● | | | | | | | | | | | A1 | B1 | 12 |
| 106 | E.H2S.20P.A | S-H2S-01.01 | Hydrogen sulfide | 20 | ppm | -40 | 50 | EC | 2 years in air | | ● | ● | ● | ● | ● | | | | | | | | | | | A1 | B1 | 12 |
| 107 | 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 |
| 108 | E.H2S.200P.B | S-H2S-13.01 | Hydrogen sulfide | 200 | ppm | -40 | 50 | EC | 2 years in clean air | | ● | ○ | ● | ● | ● | | | | | | | | | | | A1 | B1 | 12 |
| 109 | C.C4H10.100L.A | PWS-024-CAT-02.14 | Isobutane | 100 | %LEL | -30 | 60 | PEL | 3 years | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B1 | 12 |
| 110 | I.C4H10.100L.A | S-IR-08.06 | Isobutane | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | | | | | | | A0 | B1 | 12 |
| 111 | C.C3H8O.100L.A | PWS-024-CAT-02.13 | Isopropanol | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | A2 | B2 | 12 |
| 112 | I.C3H8O.100L.A | S-IR-08.06 | Isopropanol | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | | | | | | | A2 | B2 | 12 |
| 113 | C.C5H10O2.100L.A | PWS-024-CAT-02.13 | Isopropyl alcohol | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | A2 | B2 | 12 |
| 114 | C.CH4.100L.A | PWS-024-CAT-02.14 | Methane | 100 | %LEL | -30 | 60 | PEL | 3 years | | ● | ● | | ● | ● | ● | | | | | | | | | | A0 | B0 | 12 |
| 115 | I.CH4.100L.A | S-IR-08.06 | Methane | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | ● | | | | | | | | | | A0 | B0 | 12 |
| 116 | C.CH3OH.100L.A | PWS-024-CAT-02.13 | Methyl alcohol | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | A2 | B2 | 12 |
| 117 | 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 |
| 118 | E.CH3OH.100P.A | S-Alc-01.01 | Methyl alcohol | 100 | ppm | -40 | 50 | EC | 2 years in air | Above 35°C possible high zero drift (approx. 10 ppm); high CO cross-sensitivity | ● | ● | ● | ● | ● | | | | | | | | | | | A2 | B2 | 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 | | | | | | | | A | B | Months between calibration | | | | | | |
|-----|-----------------|-------------------|---|-------|------|------------|------------|-------------|------------------------|---|--------------|----------|---------|----------------|-----|-----|----|-----|----|----|----|---|---|----------------------------|----|----|----|----|----|----|
| | | | | | | | | | | | SmArtGas 4 | ProGas 4 | ReAct 4 | FL | FLM | FLC | FH | FHM | HL | HH | HR | | | | HW | | | | | |
| 119 | C.C5H8O2.100L.A | PWS-024-CAT-02.13 | Methyl methacrylate | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | A2 | B2 | 12 | | | |
| 120 | C.C4O8.100L.A | PWS-024-CAT-02.13 | n-Butylene oxide -1,2 (1,2-Epoxybutane) | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | A2 | B3 | 12 | | |
| 121 | E.NO.25P.A | S-NO-01.01 | Nitric oxide | 25 | ppm | -20 | 45 | EC | 3 years in air | | | ● | | | | | | | | | | | | | | A1 | B1 | 12 | | |
| 122 | E.NO.100P.A | S-NO-01.02 | Nitric oxide | 100 | ppm | -20 | 45 | EC | 2 years in air | | | ● | | | | | | | | | | | | | | A1 | B1 | 12 | | |
| 123 | E.NO2.20P.A | S-NO2-01.01 | Nitrogen dioxide | 20 | ppm | -20 | 45 | EC | 2 years in air | | | ● | | | | | | | | | | | | | | A1 | B1 | 12 | | |
| 124 | E.O2.25V.A | S-O2-03.01 | Oxygen | 25 | %vol | -20 | 50 | EC | 2 years in air | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B0 | 12 | | |
| 125 | E.O2.25V.B | S-O2-21.01 | Oxygen | 25 | %vol | -30 | 40 | EC | 2 years in air | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B0 | 12 | | |
| 126 | E.O3.1P.A | S-O3-05.01 | Ozone | 1 | ppm | -20 | 40 | EC | 18 months in air | Delivery time 3 months Do not use with H2S | | ● | ● | | | | | | | | | | | | | A2 | B2 | 12 | | |
| 127 | E.O3.1P.B | S-O3-05.02 | Ozone | 1 | ppm | -20 | 40 | EC | 18 months | Delivery time 3 months | | ● | ● | | | | | | | | | | | | | A2 | B2 | 12 | | |
| 128 | E.O3.3P.A | S-O3-01.01 | Ozone | 3 | ppm | -20 | 50 | EC | 2 years in air | | | ● | ● | | | | | | | | | | | | | A2 | B2 | 12 | | |
| 129 | C.C5H12.100L.A | PWS-024-CAT-02.13 | Pentane | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B0 | 12 | | |
| 130 | I.C5H12.100L.A | S-IR-08.06 | Pentane | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | | | | | | | A0 | B0 | 12 | | |
| 131 | C.PB98.100L.A | PWS-024-CAT-02.13 | Petrol 98 | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | A2 | B1 | 12 | | |
| 132 | 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 | | |
| 133 | E.COCL2.1P.A | S-COCl2-05.01 | Phosgene | 1 | ppm | -20 | 40 | EC | 12 months in air | Delivery time 3 months | ● | ● | ● | ● | ● | | | | | | | | | | | A1 | B3 | 12 | | |
| 134 | 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 | | |
| 135 | C.C3H8.100L.A | PWS-024-CAT-02.14 | Propane | 100 | %LEL | -30 | 60 | PEL | 3 years | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B0 | 12 | | |
| 136 | I.C3H8.100L.A | S-IR-08.06 | Propane | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | | | | | | | A0 | B0 | 12 | | |
| 137 | C.C3H8.80L.A | PWS-024-CAT-02.14 | Propane | 80 | %LEL | -30 | 60 | PEL | 3 years | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B0 | 12 | | |
| 138 | C.C3H6.100L.A | PWS-024-CAT-02.14 | Propylene | 100 | %LEL | -30 | 60 | PEL | 3 years | | ● | ● | | ● | ● | | | | | | | | | | | A0 | B1 | 12 | | |
| 139 | C.C3H6O.100L.A | PWS-024-CAT-02.14 | Propylene oxide | 100 | %LEL | -30 | 60 | PEL | 3 years | | ● | ● | | ● | ● | | | | | | | | | | | A1 | B3 | 12 | | |
| 140 | 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 | |
| 141 | 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 |
| 142 | I.R507.1000P.A | S-IR-17.18 | Refrigerant R507A | 1000 | ppm | -20 | 40 | IR | MTBF: > 5 years | Resistance to gas overload | | ● | | | | | | | | | | | | | | | ● | A1 | B0 | 12 |
| 143 | C.C8H8.100L.A | PWS-024-CAT-02.13 | Styrene | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | | | | | A2 | B2 | 12 | |
| 144 | I.C8H8.100L.A | S-IR-08.06 | Styrene | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | | | | | | | | A2 | B2 | 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 | | | | | | | | A | B | Months between calibration | | |
|-----|----------------|-------------------|---------------------|-------|------|------------|------------|-------------|------------------------|---|--|--|---|----------------|-----|-----|----|-----|----|----|----|---|---|----------------------------|----|----|
| | | | | | | | | | | |  SmArtGas 4 |  ProGas 4 |  ReAct 4 | FL | FLM | FLC | FH | FHM | HL | HH | HR | | | | HW | |
| 145 | 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 |
| 146 | E.SO2.5P.A | S-SO2-01.01 | Sulphur dioxide | 5 | ppm | -20 | 45 | EC | 2 years in air | | | ● | ● | | | | | | | | | | ● | A1 | B1 | 12 |
| 147 | E.SO2.20P.A | S-SO2-01.01 | Sulphur dioxide | 20 | ppm | -20 | 45 | EC | 2 years in air | | | ● | ● | | | | | | | | | | ● | A1 | B1 | 12 |
| 148 | C.C7H8.100L.A | PWS-024-CAT-02.13 | Toluene | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | ● | A2 | B2 | 12 |
| 149 | I.C7H8.100L.A | S-IR-08.06 | Toluene | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | | | | ● | A2 | B2 | 12 |
| 150 | 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 |
| 151 | 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 |
| 152 | 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 |
| 153 | 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 |
| 154 | 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 |
| 155 | C.C8H10.100L.A | PWS-024-CAT-02.13 | Xylene | 100 | %LEL | -30 | 70 | PEL | 5 years | | ● | ● | | ● | ● | | | | | | | | ● | A2 | B2 | 12 |
| 156 | I.C8H10.100L.A | S-IR-08.06 | Xylene | 100 | %LEL | -40 | 75 | IR | MTBF: > 5 years | Resistance to gas overload | ● | ● | | ● | ● | | | | | | | | ● | A2 | B2 | 12 |