

| # | Sensor ID | Type | Formula | Chemical | Maximum Detection Limit | Lowest Detection Threshold | Resolution (ppm) | Cross sensitivity | Urban | Odour | WWT | Industrial | Safety | Process Co. | Agriculture | IAQ | Compost | Combustion | Industry | Expected Life (years) | Warmup Time (Min) | Response Time (Sec) |
|----|-----------|-----------------|------------------|--|--------------------------|----------------------------|-----------------------|--|-------|-------|-----|------------|--------|-------------|-------------|-----|---------|------------|---|-----------------------|-------------------|---------------------|
| 1 | CD1 | NDIR | CO2 | Carbon Dioxide - High Concentration | 5%, 20% and 100% | 20 ppm | 100, 2000, 10000 ppm | NONE | - | - | - | - | ✓ | ✓ | - | - | - | ✓ | Safety/Combustion/ process control | 5 | 30 | 40 |
| 2 | CD2 | NDIR | CO2 | Carbon Dioxide - Low Concentration | 5000 ppm | 0 ppm | 15 ppm | NONE | ✓ | - | - | ✓ | - | - | - | ✓ | - | - | Urban, Industrial, IAQ | 5 | 30 | 40 |
| 3 | CO1 | EC | CO | Carbon Monoxide (low Concentration) | 500 ppm | 15 ppm | 5 ppm | H2 <10% | ✓ | - | - | ✓ | - | - | - | ✓ | - | - | Urban, Industrial, IAQ | 2 | 45 | 25 |
| 4 | CO2 | EC | CO | Carbon Monoxide (high concentration) | 10000 ppm | 250 ppm | 20 ppm | H2 <10% | - | - | - | - | ✓ | ✓ | - | - | - | ✓ | Safety/Combustion/ process control | 2 | 45 | 25 |
| 5 | C11 | EC | Cl | Chlorine | 20 ppm | 200 ppb | 20 ppb | H2S, NO2 | - | - | - | ✓ | ✓ | - | - | - | - | - | Industrial, Safety | 2 | 120 | 60 |
| 6 | E1 | EC | C2H4O | Ethylene Oxide | 100 ppm | 1 ppm | 0.1 ppm | H2S, NO, C2H4 | - | - | - | ✓ | ✓ | - | - | - | - | - | Industrial, Safety | 2 | 120 | 200 |
| 7 | H1 | EC | H | Hydrogen | 5000 ppm | 1 ppm | 0.8 ppm | C2H4 | - | - | - | ✓ | ✓ | - | - | ✓ | - | - | Industrial, Safety, IAQ | 2 | 120 | 80 |
| 8 | HCL1 | EC | HCl | Hydrogen Chloride | 100 ppm | 0.1 ppm | 0.1 ppm | H2S, NO2, CL2 | - | - | - | ✓ | ✓ | - | - | - | - | - | Industrial, Safety | 1 | 120 | 200 |
| 9 | HCY1 | EC | HCN | Hydrogen Cyanide | 100 ppm | 0.1 ppm | 0.1 ppm | H2S, NO2 | - | - | - | ✓ | ✓ | - | - | - | - | - | Industrial, Safety | 1 | 120 | 120 |
| 10 | AM1 | EC | NH3 | Ammonia | 100 ppm | 0.5 ppm | 0.3 ppm | H2S, NO2, CL2 | - | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - | Odour, WWTP, Industrial, Safety, | 1 | 180 | 60 |
| 11 | ON1 | EC | O3 & NO2 | Oxidizing Gases Ozone and Nitrogen Dioxide | O3- 20; NO2- 20 ppm | 20 ppb | 15 ppb | H2S, CL2 | ✓ | - | - | ✓ | ✓ | ✓ | - | - | - | - | Industrial, Urban, Safety, Process control | 2 | 60 | 35 |
| 12 | PH1 | EC | PH3 | Phosphine (low Concentration) | 10 ppm | 50 ppb | 30 ppb | H2S, C2H4, | - | - | - | ✓ | ✓ | - | - | - | - | - | Industrial, safety | 2 | 60 | 30 |
| 13 | PH2 | EC | PH3 | Phosphine (high Concentration) | 2000 ppm | 5 ppm | 2 ppm | H2S, C2H4, | - | - | - | ✓ | ✓ | - | - | - | - | - | Industrial, safety | 2 | 60 | 30 |
| 14 | HS1 | EC | H2S | Hydrogen Sulfide (low Concentration - ppb) | 1 ppm | 3 ppb | 1 ppb | CL2<20% | ✓ | ✓ | ✓ | ✓ | - | - | - | ✓ | - | - | WWTP, Odour, IAQ, Urban, Industrial | 2 | 180 | 55 |
| 15 | HS2 | EC | H2S | Hydrogen Sulfide (high Concentration - ppm) | 2000 ppm | 1 ppm | 1 ppm | CL2<20% | - | - | ✓ | - | ✓ | - | - | - | - | - | Safety, WWTP | 2 | 180 | 55 |
| 16 | E2 | MOS | C2H6O, H2, C4H10 | Organic solvents (Ethanol, Iso-Butane, H2) | 500 ppm | 0 ppm | 1 ppm | Benzines <20% | - | ✓ | - | ✓ | - | - | - | - | ✓ | - | Industrial, Odour, Compost | 1 | 30 | 10 |
| 17 | MT1 | NDIR | CH4 | Methane (LEL) | 100 % LEL (50,000 ppm) | 500 ppm | 200 ppm | Methane, propane, | - | - | - | ✓ | ✓ | ✓ | - | - | - | ✓ | Safety/Combustion/Inprocess control, Industrial | >3 years | 30 | 40 |
| 18 | NC1 | EC | NO | Nitric Oxide (low Concentration) | 20 ppm | 15 ppm | 5 ppb | None | ✓ | - | - | ✓ | - | - | - | ✓ | - | - | Urban, IAQ, Industrial | 2 | 120 | 45 |
| 19 | NC2 | EC | NO | Nitric Oxide (High Concentration) | 5000 ppm | 2 ppm | 1 ppm | None | - | - | - | ✓ | ✓ | ✓ | - | - | - | - | Industrial, safety, Process control | 2 | 120 | 45 |
| 20 | ND1 | EC | NO2 | Nitrogen Dioxide (Low Concentration) | 20 ppm | 0.03 ppm | 0.02 ppm | H2S, CL2, | ✓ | - | - | ✓ | - | - | - | ✓ | - | - | Urban, IAQ, Industrial | 2 | 120 | 70 |
| 21 | ND2 | EC | NO2 | Nitrogen Dioxide (high Concentration) | 200 ppm | 0.3 ppm | 0.1 ppm | H2S, CL2, | - | - | - | ✓ | ✓ | ✓ | - | - | - | - | Industrial, safety, Process control | 2 | 120 | 70 |
| 22 | O1 | EC | O | Oxygen | 20% | 0.01% | 0.01% | NONE | ✓ | - | - | ✓ | ✓ | - | - | ✓ | - | - | IAQ, Safety, Industrial, Urban | 2 | 60 | 35 |
| 23 | O2 | EC | O | Oxygen | 100% | 0.20% | 0.10% | NONE | - | - | - | - | ✓ | ✓ | - | - | - | - | Process control, Safety | 2 | 60 | 35 |
| 24 | PD1 | PID | VOCs | Total VOCs (ppb) - PID | 50 ppm (isobutylene) | 0 ppm | 1 (ppb isobutylene) | All VOCs | ✓ | ✓ | ✓ | ✓ | - | - | - | ✓ | - | - | WWTP, Odour, IAQ, Urban, Industrial | 5* | 5 | 3 |
| 25 | PD2 | PID | VOCs | Total VOCs (ppm) - PID | 300 ppm (isobutylene) | 1 ppm | 0.1 (ppm isobutylene) | All VOCs | - | - | - | ✓ | ✓ | - | - | - | - | - | Safety, Industrial | 5* | 5 | 3 |
| 26 | SD1 | EC | SO2 | Sulfur Dioxide (high Concentration) | 2000 ppm | 0.5 ppm | 0.5 ppm | NO2, CL2 | - | - | - | ✓ | ✓ | - | - | - | - | - | Safety, Industrial | 2 | 120 | 40 |
| 27 | SD2 | EC | SO2 | Sulfur Dioxide (low Concentration) | 20 ppm | 10 ppb | 5 ppb | NO2, CL2 | ✓ | - | - | ✓ | - | - | - | ✓ | - | - | Urban, IAQ, Industrial | 2 | 120 | 40 |
| 28 | FM1 | EC | CH2O | Formaldehyde | 10 ppm | 0.01 ppm | 0.01 ppm | Ethanol | - | - | - | ✓ | ✓ | - | - | ✓ | - | - | IAQ, Safety, Industrial, | 3 | 60 | 20 |
| 29 | PM 1-10 | Laser Scattered | PM | Particulate PM 1, 2.5, 10 (simultaneous) | 10,000 Particles/Sec | PM 1 | N/A | NA | ✓ | - | - | ✓ | - | - | - | ✓ | - | - | Urban, IAQ, Industrial | >5 years | NA | NA |
| 30 | MS1 | MOS | VOCs | General Purpose Odours (VOCs) | 1000 ppm isobutanol | 0.5 | 0.5 | VOCs and Solvents | - | ✓ | - | - | - | - | - | - | - | - | Odour | 1 | 30 | 10 |
| 31 | MS2 | MOS | TRS | TRS and Amines | 3 ppm (Methyl Mercaptan) | 10 ppb | 10 ppb | Trimethyl Amine, Methyl Mercaptans, H2S, other | - | ✓ | ✓ | - | - | - | - | - | - | - | Odours, WWTP | 1 | 30 | 10 |
| 32 | MS3 | MOS | NH3-C2H6O-C7H8 | Air Contaminants (Ammonia, Ethanol, Toulene) | 3 ppm (ammonia) | 10 ppb | 10 ppb | Ammonia, Ethanol, Toulene | - | ✓ | ✓ | ✓ | - | - | - | - | - | - | Odours, WWTP, Industrial | 1 | 30 | 10 |
| 33 | MS4 | MOS | NH3 | Ammonia | 300 | 10 | 0.5 | Ammonia, H2S, Ethanol | - | - | - | ✓ | - | - | ✓ | - | - | - | Agricultural, Industrial | 1 | 30 | 10 |