

| Scentroid Sensor List - Technical Information | | | | | | | | | | | | | |
|---|--------------|-----------------|------------------|---|-------------------------|----------------------------|------------|-------------------|------------------|---|-----------------------|-------------------|---------------------|
| # | Sensor ID | Type | Formula | Chemical | Maximum Detection Limit | Lowest Detection Threshold | Resolution | Cross sensitivity | | Industry | Expected Life (years) | Warmup Time (Sec) | Response Time (Sec) |
| | | | | | | | | Required | Recommended | | | | |
| 1 | CD1 | NDIR | CO2 | Carbon Dioxide - High Concentration | 5% | 100 ppm | 20 ppm | – | – | Safety/Combustion/ process control | 1 | 120 | 120 |
| 2 | CD2 | NDIR | CO2 | Carbon Dioxide - Low Concentration | 2000 ppm | 1 ppm | 0.6 ppm | – | – | Urban, Industrial, IAQ | 1 | 120 | 120 |
| 3 | CM1 | EC | CO | Carbon Monoxide (Low Concentration) | 100 ppm | 0.03 ppm | 0.01 ppm | H2, C2H4 | | Urban, Industrial, IAQ | 2 | 40 | 40 |
| 4 | CM3 | EC | CO | Carbon Monoxide (Medium Concentration) | 1000 ppm | 1 ppm | 1 ppm | – | – | Urban, Industrial, IAQ | 5 | 40 | 20 |
| 5 | CM2 | EC | CO | Carbon Monoxide (high concentration) | 10000 ppm | 30 ppm | 3 ppm | – | – | Safety/Combustion/ process control | 2 | 45 | 40 |
| 6 | CL2 | EC | CL2 | Chlorine (High Concentration) | 2000 ppm | 1 ppm | 1 ppm | NO2 | BR2 | Safety/Combustion/ process control | 2 | 45 | 40 |
| 7 | CL1 | EC | Cl2 | Chlorine (Low Concentration) | 10 ppm | 0.05 ppm | 0.01 ppm | NO2 | NO2 | Industrial, Safety | 2 | 120 | 60 |
| 8 | H1 | EC | H2 | Hydrogen | 10000 ppm | 100 ppm | 10 ppm | CO | | Industrial, Safety, IAQ | 2 | 120 | 40 |
| 9 | HCL1 | EC | HCl | Hydrogen Chloride | 20 ppm | 0.5 ppm | 0.2 ppm | H2S | HBr | Industrial, Safety | 2 | 120 | 60 |
| 10 | HCY1 | EC | HCN | Hydrogen Cyanide | 50 ppm | 0.1 ppm | 0.1 ppm | H2S, NO2, SO2 | – | Industrial, Safety | 2 | 120 | 30 |
| 11 | PH1 | EC | PH3 | Phosphine (low Concentration) | 5 ppm | 50 ppb | 30 ppb | NO2 | SO2, H2S | Industrial, safety | 2 | 60 | 20 |
| 12 | PH2 | EC | PH3 | Phosphine (high Concentration) | 2000 ppm | 5 ppm | 2 ppm | NO2 | SO2, H2S | Industrial, safety | 2 | 60 | 25 |
| 13 | HS1 | EC | H2S | Hydrogen Sulfide (low Concentration - ppb) | 3 ppm | 7 ppb | 1 ppb | – | – | WWTP, Odour, IAQ, Urban, Industrial | 2 | 180 | 35 |
| 14 | HS2 | EC | H2S | Hydrogen Sulfide (high Concentration - ppm) | 2000 ppm | 15 ppm | 2 ppm | – | – | Safety, WWTP | 2 | 180 | 25 |
| 15 | HS3 | EC | H2S | Hydrogen Sulfide (medium Concentration - ppm) | 200 ppm | 2 ppm | 0.2 ppm | – | – | Safety, WWTP | 2 | 180 | 60 |
| 16 | E2 | MOS | C2H6O, H2, C4H10 | Organic solvents (Ethanol, Iso-Butane, H2) | 500 ppm | 25 ppm | 1 ppm | – | Benzines <20% | Industrial, Odour, Compost | 1 | 30 | 10 |
| 17 | MT1 | NDIR | CH4 | Methane (LEL) | 20,000 ppm | 100 ppm | 100 ppm | – | Propane | Safety/Combustion/Inprocess control, Industrial | >3 years | 45 | 12 |
| 18 | NC1 | EC | NO | Nitric Oxide (Low Concentration) | 1 ppm | 0.01 ppm | 0.001 ppm | – | – | Urban, IAQ, Industrial | 2 | 120 | 60 |
| 19 | NC2 | EC | NO | Nitric Oxide (Medium Concentration) | 25 ppm | 0.2 ppm | 0.1 ppm | – | – | Urban, IAQ, Industrial | 2 | 120 | 60 |
| 20 | NC3 | EC | NO | Nitric Oxide (High Concentration) | 5000 ppm | 2 ppm | 2 ppm | – | – | Industrial, safety, Process control | 3 | 120 | 10 |
| 21 | ND1 | EC | NO2 | Nitrogen Dioxide (Low Concentration) | 1 ppm | 0.01 | 0.001 ppm | – | – | Urban, IAQ, Industrial | >5 years | 120 | 60 |
| 22 | ND2 | EC | NO2 | Nitrogen Dioxide (Med Concentration) | 20 ppm | 0.1 ppm | 0.1 ppm | – | – | Urban, IAQ, Industrial | >5 years | 120 | 60 |
| 23 | ND3 | EC | NO2 | Nitrogen Dioxide (high Concentration) | 1000 ppm | 2 ppm | 1 ppm | – | – | Industrial, safety, Process control | 2 | 120 | 60 |
| 24 | NS1 | NDIR | N2O | Nitrous Oxide | 10,000 ppm | 100 ppm | 1 ppm | – | Negligible | Urban, Industrial, Process control | 5 | 30 | 30 |
| 25 | O2 | EC | O2 | Oxygen (high Concentration) | 250,000 ppm | 5000 ppm | 200 ppm | – | – | Process control, Safety | 1 | 60 | 15 |
| 26 | PD3 | PID | VOCs | Total VOCs 10.0 eV | 100 ppm | 5 ppb | 5 ppb | – | Aromatic Carbons | WWTP, Odour, IAQ, Urban, Industrial | 5* | 5 | 3 |
| 27 | PD1 | PID | VOCs | Total VOCs (Low Concentration) - PID 10.7 eV | 50 ppm (isobutylene) | 1 ppb | 1 ppb | – | All VOCs | WWTP, Odour, IAQ, Urban, Industrial | 5* | 5 | 3 |
| 28 | PD2 | PID | VOCs | Total VOCs (High Concentration) - PID 10.7 eV | 300 ppm (isobutylene) | 1 ppm | 50 ppb | – | All VOCs | Safety, Industrial | 5* | 5 | 3 |
| 29 | SD1 | EC | SO2 | Sulfur Dioxide (high Concentration) | 2000 ppm | 2 ppm | 1 ppm | NO2 | – | Safety, Industrial | 2 | 120 | 25 |
| 30 | SD2 | EC | SO2 | Sulfur Dioxide (low Concentration) | 1 ppm | 0.01 ppm | 0.001 ppm | NO2 | – | Urban, IAQ, Industrial | 2 | 120 | 20 |
| 31 | SD3 | EC | SO2 | Sulfur Dioxide (medium Concentration) | 100 ppm | 0.4 ppm | 0.2 ppm | NO2 | – | Urban, IAQ, Industrial | 2 | 120 | 20 |
| 32 | FM1 | EC | CH2O | Formaldehyde | 5 ppm | 10 ppb | 10 ppb | – | Ethanol | IAQ, Safety, Industrial, | 2 | 180 | 60 |
| 33 | PM 1, 2.5-10 | Laser Scattered | PM | Particulate PM 1, 2.5, 10 (simultaneous) | 2000 µg/m3 | 1 µg/m3 | 1 µg/m3 | – | NA | Urban, IAQ, Industrial | >5 years | NA | NA |
| 34 | TS1 | Laser Scattered | TSP | TSP - PM Required | 20000 µg/m3 | 1 µg/m3 | 1 µg/m3 | – | NA | Urban, IAQ, Industrial | >5 years | NA | NA |

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|----|-----------|--|----------------|---|-------------------------|----------------------------|----------------------|-----------------------|--|--|-----------------------|-------------------|---------------------|
| | | | | | | | | Required | Recommended | | | | |
| 35 | PM 0.3-25 | Laser Scattered | PM+ | High concentration Particulate counter | 20000 µg/m³ | 0.1 µg/m³ | 0.003 µg/m³ | - | NA | Urban, IAQ, Industrial | >5 years | NA | NA |
| 36 | NMH | EC | NMHC | Non-methane Hydrocarbon | 25 ppm | 0.1 ppm | 0.1 ppm | - | NA | Industrial, Process, Combustion | 2 | 180 | 55 |
| 37 | MS2 | MOS | TRS | TRS and Amines | 10 ppm | 10 ppb | 2 ppb | - | Trimethyl Amine, Methyl Mercaptans, H2S, other | Odours, WWTP | 1 | 30 | 10 |
| 38 | MS3 | MOS | NH3-C2H6O-C7H8 | Air Contaminants (Ammonia, Ethanol, Toulene) | 30 ppm | 1 ppm | 4 ppb | - | (ammonia, Ethanol, Toulene) | Odours, WWTP, Industrial | 1 | 30 | 10 |
| 39 | AM2 | EC | NH3 | Ammonia (High concentration) | 100 ppm | 3 ppm | 1 ppm | CL2 | H2S, NO2 | Agricultural, Industrial | 2 | 30 | 40 |
| 40 | AM1 | EC | NH3 | Ammonia (Low Concentration) | 10 ppm | 0.005 ppm | 0.001 ppm | CL2 | H2S | Agricultural, Industrial | 2 | 30 | 50 |
| 41 | OZ1 | EC | O3 | Ozone (low Concentration) | 0.5 ppm | 1 ppb | 1 ppb | CL2 | H2S, NO2 | Urban, Industrial | >5 years | 60 | 30 |
| 42 | OZ2 | EC | O3 | Ozone (High Concentration) | 5 ppm | 20 ppb | 20 ppb | CL2 | H2S, NO2 | Urban, Industrial | >5 years | 60 | 30 |
| 43 | RD1 | Geiger Counter | α-, β-, γ, x | Radiation Monitor (α-, β-, γ- and x- radiation) | 1000 µSv / h | 0.01 µSv / h | 0.01 µSv / h | - | - | Mining, Industrial, Nuclear Energy, Security | >3 years | 0 | 0 |
| 44 | CIO21 | EC | CIO2 | Chlorine Dioxide | 50 ppm | 0.01 ppm | 0.05 ppm | - | CL2 | Odour, Industrial | 2 | 180 | 60 |
| 45 | CH4L | TDLS | CH4 | Methane - ppb | 100 ppm | 0.4 ppm | 0.01 ppm | - | - | Greenhouse gases, industrial | 10+ | 20 | 1 |
| 46 | ET1 | EC | C2H4 | Ethylen - Low Concentartion | 10 | 0.05 ppm | 0.01 ppm | CO | - | Greenhouse gases, industrial | 2 | 120 | 30 |
| 47 | ET2 | EC | C2H4 | Ethylen - Medium Concentration | 200 | 1 ppm | 0.5 ppm | CO | -- | Greenhouse gases, industrial | 2 | 120 | 30 |
| 48 | ET3 | EC | C2H4 | Ethylen - High Concentration | 1500 | 5 ppm | 2 ppm | CO | - | Greenhouse gases, industrial | 2 | 120 | 30 |
| 49 | MM | EC | CH3SH | Methyl Mercaptan | 10 ppm | 0.05 ppm | 0.01 ppm | H2S | | Odours, WWTP, Leak Detection, Industrial | 2 | 120 | 35 |
| 50 | EMF | EMF | EMF | Electro Magnetic Field | 200 mGauss | 0.1 mGauss | 0.1 mGauss | - | - | Urban, Industrial, power plants | 3 | <1 | <1 |
| 51 | CS | EC | CS2 | Carbon Disulfide | 100 ppm | 1 ppm | 0.1 ppm | - | - | Odour, WWTP, Industrial | 2 | 120 | 30 |
| 52 | TBM | EC | C4H10S | Tert Butylthiol | 14 ppm | 0 ppm | 0.1 ppm | - | - | Odour, Leak detection, Industrial | 2 | 120 | 30 |
| 53 | THT | EC | C4H8S | Tetrahydrothiophene | 14 ppm | 0 ppm | 0.1 ppm | - | - | Odour, Leak detection, Industrial | 2 | 120 | 30 |
| 54 | RDN | Pulsed Ion | RN | Radon gas | 99.9 pCi/l (3,700Bq/m³) | 0.2 pCi/l (700Bq/m³) | 0.2 pCi/l (350Bq/m³) | - | - | IAQ, Safety, Industrial, | 2 | 10 | <1 |
| 55 | AL1 | EC | CH3OH - C2H5OH | Methanol & Ethanol | 100 ppm | 0.1 ppm | 0.05 ppm | CO | | Industrial, Odour | 2 | 120 | <25 |
| 56 | BTX | EC | BTEX | benzene, toluene, ethylbenzene and xylene. | 10 ppm | 7 ppb | 1 ppb | H2S, Ethanol (C2H5OH) | - | industrial, Urban | 2 | 120 | <100s |
| 57 | HE | Mirco thermal conductivity detector (MTCD) | He | Helium | 0-100% | 0.50% | 0.10% | - | CH4 | Leak detection, industrial | 5 | 10 | <1 |
| 58 | COCL | EC | COCL2 | Phosgene | 1 PPM | 7 PPB | 1 ppb | - | CL2 | WWTP, Odour, IAQ, Urban, Industrial | 2 | 180 | 35 |
| 59 | BNZ | Selective Filter + PID | C6H6 | Benzene | 20 ppm | 10 ppb | 1 ppb | - | - | Industrial, leak detection, IAQ | 2 | 60 | 5 |
| 60 | DMS | EC | C2H6S | Dimethyl sulfide | 10ppm | 100 ppb | 100 ppb | H2S | - | WWTP, Odour, IAQ, Urban, Industrial | 2 | 120 | 30 |
| 61 | H2O2 | EC | H2O2 | Hydrogen Peroxide | 2000 pm | 5 ppm | 0.5 ppm | H2S, NO2 | NO SO2 | Industrial | 2 | 120 | 25 |
| 62 | H2O2L | EC | H2O2 | Hydrogen Peroxide | 100 ppm | 0.1 ppm | 0.05 ppm | H2S, NO2 | NO SO2 | Industrial | 2 | 120 | 25 |
| 63 | SF6 | NDIR | SF6 | Sulfur Hexaflouride | 1500 ppm | 2 ppm | 1 ppm | - | - | Industrial | 5 | 30 | 30 |