

## Scentroid Sensor List - Technical Information

#	Sensor ID	Type`	Formula	Chemical	Maximum Detection Limit	Lowest Detection Threshold	Resolution (ppm)	Sensors to Reduce Cross Sensitivity		Industry	Expected Life (years)	Warmup Time (Min)	Response Time (Sec)
								Required	Recommended				
1	CD1	NDIR	CO2	Carbon Dioxide - High Concentration	5%	20 ppm	100	-	-	Safety/Combustion/ process control	1	120	120
2	CD2	NDIR	CO2	Carbon Dioxide - Low Concentration	2000 ppm	0 ppm	0.6 ppm	-	-	Urban, Industrial, IAQ	1	120	120
3	CM1	EC	CO	Carbon Monoxide (low Concentration)	1000 ppm	0 ppm	0.1 ppm	-	-	Urban, Industrial, IAQ	5	40	20
4	CM2	EC	CO	Carbon Monoxide (high concentration)	10000 ppm	30 ppm	3 ppm	-	-	Safety/Combustion/ process control	2	45	40
5	CL1	EC	Cl2	Chlorine	20 ppm	200 ppb	0.1 ppm	NO2	-	Industrial, Safety	2	120	60
7	H1	EC	H2	Hydrogen	10000 ppm	100 ppm	10 ppm	-	CO	Industrial, Safety, IAQ	2	120	40
8	HCL1	EC	HCl	Hydrogen Chloride	20 ppm	0.5 ppm	0.2 ppm	H2S	NO2	Industrial, Safety	2	120	60
9	HCY1	EC	HCN	Hydrogen Cyanide	50 ppm	0.1 ppm	0.5 ppm	CL2, HCL, H2S, NO2	-	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	1	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)	100 % LEL (50,000 ppm)	500 ppm	50 ppm	-	Methane, propane,	Safety/Combustion/Inpro cess control, Industrial	>3 years	45	12
18	NC1	EC	NO	Nitric Oxide (low Concentration)	25 ppm	0.2 ppm	0.05 ppm	-	-	Urban, IAQ, Industrial	3	120	10
19	NC2	EC	NO	Nitric Oxide (High Concentration)	5000 ppm	2 ppm	3 ppm	-	-	Industrial, safety, Process control	3	120	10
20	ND1	EC	NO2	Nitrogen Dioxide (Low Concentration)	20 ppm	0.03 ppm	0.1 ppm	-	-	Urban, IAQ, Industrial	>5 years	120	60
21	ND2	EC	NO2	Nitrogen Dioxide (high Concentration)	1000 ppm	2 ppm	1 ppm	-	-	Industrial, safety, Process control	2	120	60
22	NS1	NDIR	N2O	Nitrous Oxide	1% volume	100 ppm	1 ppm	-	Negligible	Urban, Industrial, Process control	5	30	30
24	O2	EC	O2	Oxygen (high Concentration)	25%	5000 ppm	200 ppm	-	-	Process control, Safety	1	60	15
25	PD1	PID	VOCs	Total VOCs (ppb) - PID	50 ppm ( isobutylene )	10 ppb	10 ppb	-	All VOCs	WWTP, Odour, IAQ, Urban, Industrial	5	5	3
26	PD2	PID	VOCs	Total VOCs (ppm) - PID	300 ppm ( isobutylene )	1 ppm	50 ppb	-	All VOCs	Safety, Industrial	5	5	3
27	SD1	EC	SO2	Sulfur Dioxide (high Concentration)	2000 ppm	2 ppm	1 ppm	NO2	-	Safety, Industrial	2	120	25
28	SD2	EC	SO2	Sulfur Dioxide (low Concentration)	20 ppm	0.3 ppm	0.2 ppm	NO2	-	Urban, IAQ, Industrial	2	120	20

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29	SD3	EC	SO2	Sulfur Dioxide (medium Concentration)	100 ppm	0.4 ppm	0.2 ppm	NO2	-	Urban, IAQ, Industrial	2	120	20
30	FM1	EC	CH2O	Formaldehyde	5 ppm	10 ppb	10 ppb	-	Ethanol	IAQ, Safety, Industrial,	2	180	60
31	PM 1-10	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
32	TS1	Laser Scattered	TSP	PM 100	2000 µg/m3	1 µg/m3	1 µg/m3	-	NA	Urban, IAQ, Industrial	>5 years	NA	NA
33	NMH	EC	NMHC	Non-methane Hydrocarbon	25 ppm	0.1 ppm	0.1 ppm	-	NA	Industrial, Process, Combustion	2	180	55
35	MS2	MOS	TRS	TRS and Amines	10 ppm	1 ppm	2 ppb	-	Trimethyl Amine, Methyl Mercaptans,	Odours, WWTP	1	30	10
36	MS3	MOS	NH3-C2H6O-C7H8	Air Contaminants (Ammonia, Ethanol, Toluene)	30 ppm	1 ppm	4 ppb	-	(ammonia, Ethanol, Toluene)	Odours, WWTP, Industrial	1	30	10
37	AM2	EC	NH3	Ammonia (High concentration)	100 ppm	3 ppm	1 ppm	CL2, NO2	SO2, H2S	Agricultural, Industrial	2	30	40
38	AM1	EC	NH3	Ammonia (Low Concentration)	25 ppm	0.5 ppm	0.1 ppm	CL2, NO2	SO2, H2S	Agricultural, Industrial	2	30	50
39	Oz1	EC	O3	Ozone	5 ppm	20 ppb	20 ppb	CL2	NO2	Urban, Industrial	>5 years	60	30
40	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