

# SENSOR GUIDE

Target gas	Formula	Relative Gas Density	TWA	IDLH	Min Span	Max Span
Acetaldehyde	C2H4O	1.5	200ppm	2000ppm (Ca)	30ppm	1500ppm
Acetylene	C2H2	0.91	--	asphyxiant	--	0-100% LEL
Ammonia	NH3	0.6	50ppm	300ppm	25ppm	1000ppm
Ammonia	NH3	0.6	50ppm	300ppm	1250ppm	5000ppm
Arsine	AsH3	2.69	0.5ppm	3ppm	--	0.5ppm
Arsine	AsH3	2.69	0.5ppm	3ppm	--	1ppm
Benzene	C6H6	2.6961	1ppm	500ppm	3ppm	25ppm
Butane	C3H8	1.55	1000ppm (pel)	2100ppm	--	0-100% LEL
Carbon Dioxide	CO2	1.53	5000ppm	40000ppm	--	0-100% vol
Carbon Dioxide	CO2	2.33	0.1ppm C	5ppm	--	5%/vol
Carbon Dioxide	CO2	1.53	5000ppm	40000ppm	--	5%/vol
Carbon Dioxide	CO2	1.53	5000ppm	40000ppm	--	1.5%/vol
Carbon Monoxide	CO	0.97	50ppm	1200ppm	40ppm	5000ppm
Chlorine	Cl2	2.47	1ppm C	10ppm	5ppm	20ppm
Chlorine Dioxide	ClO2	2.33	0.1ppm C	5ppm	2ppm	6ppm
Combustible	Hydrocarbons	varies	--	asphyxiant	--	100%LEL
Ethane	C2H6	1.07	--	asphyxiant	--	0-100% LEL
Ethanol	C2H6O	1.6	1000ppm	3300ppm	--	0-100% LEL
Ethylene	C2H4	0.98	200ppm	asphyxiant	--	0-100% LEL
Ethyl Alcohol	C2H6O	1.59	1000ppm	3300ppm	40ppm	3300ppm
Ethylene Oxide	C2H4O	1.49	<0.1ppm (Ca)	800ppm (Ca)	2ppm	100ppm
Flourine	F2	1.31	0.1ppm	25ppm	--	1ppm
Hexane	C6H14	2.97	500ppm	1100ppm	--	0-100% LEL
Hydrazine	N2H4	1.1	C 0.03ppm (Ca)	50ppm (Ca)	--	1ppm
Hydrogen	H2	0.07	--	asphyxiant	250ppm	5000ppm
Hydrogen	H2	0.07	--	asphyxiant	500ppm	10000ppm
Hydrogen	H2	0.07	--	asphyxiant	5000ppm	40000ppm or 100%LEL
Hydrogen Chloride	HCl	1.27	5ppm C	50ppm	20ppm	100ppm
Hydrogen Cyanide	HCN	0.94	ST 4.7ppm	50ppm	35ppm	100ppm
Hydrogen Flouride	HF	0.69	3ppm	30ppm	10ppm	10ppm
Hydrogen Sulfide	H2S	1.19	20ppm	100ppm	5ppm	2000ppm
Methane	CH4	0.6	--	asphyxiant	5%/vol (100%LEL)	100%/vol
Methane	CH4	0.6	--	asphyxiant	--	0-100% LEL
Methane	CH4	0.6	--	asphyxiant	--	0-100% LEL
Nitric Oxide	NO	1.04	25ppm (pel)	100ppm	10ppm	250ppm
Nitric Oxide	NO	1.04	25ppm (pel)	100ppm	70ppm	500ppm
Nitrogen Dioxide	NO2	2.62	5ppm C	20ppm	15ppm	20ppm
Nitrogen Dioxide	NO2	2.62	5ppm C	20ppm	25ppm	200ppm
Oxygen	O2	1.1	--	19.50%	--	25%/vol
Ozone	O3	1.66	0.1ppm	10ppm	510ppb	2ppm
Pentane	C5H12	2.487	1000ppm	1500ppm	--	0-100% LEL

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TYPE	T50	T90	TEMP °F	Relative Humidity (non-condensing)	Application Notes	A1	A2	A3	FAULT
PID	--	<3	-40° to 131°	0 to 99%		20%	40%	60%	-10%
IR	<5	<10	-40° to 158°	up to 99%	Millenium sensor	20%	40%	60%	-10%
EC	<20	<60	-4° to 104°	15 to 90%		20%	40%	60%	-10%
EC	<30	<90	-4° to 104°	15 to 90%		20%	40%	60%	-10%
EC	<20	<60	-4° to 104°	20 to 95%		20%	40%	60%	-10%
EC	--	<30	-4° to 104°	10 to 95%	Available with or without H2S filter	20%	40%	60%	-10%
PID	--	<3	-40° to 131°	0 to 99%		20%	40%	60%	-10%
IR	--	<30	-4° to 122°	0 to 95%		20%	40%	60%	-10%
IR	<15	<30	-4° to 122°	0 to 95%	Specify span when ordering	20%	40%	60%	-10%
IR	<5	<10	-40° to 158°	up to 99%	Millenium sensor	20%	40%	60%	-10%
IR	--	<30	-4° to 122°	0 to 95%	Low power IR in development	20%	40%	60%	-10%
IR	--	<30	-4° to 122°	0 to 95%	Low power IR	20%	40%	60%	-10%
EC	--	<30	-4° to 122°	15 to 90%		20%	40%	60%	-10%
EC	--	<60	-4° to 122°	15 to 90%		20%	40%	60%	-10%
EC	--	<60	-4° to 122°	15 to 90%		20%	40%	60%	-10%
CB	3	8	-4° to 158°	0 to 100%		20%	40%	60%	-10%
IR	<5	<10	-40° to 158°	up to 99%	Millenium sensor	20%	40%	60%	-10%
IR	<5	<10	-40° to 158°	up to 99%	Millenium sensor	20%	40%	60%	-10%
IR	<5	<10	-40° to 158°	up to 99%	Millenium sensor	20%	40%	60%	-10%
PID	--	<3	-40° to 131°	0 to 99%		20%	40%	60%	-10%
EC	--	<200	-22° to 122°	15 to 90%		20%	40%	60%	-10%
EC	<30	<80	14° to 104°	15 to 90%		20%	40%	60%	-10%
IR	<5	<10	-40° to 158°	up to 99%	Millenium sensor	20%	40%	60%	-10%
EC	<30	<120	14° to 104°	20 to 95%		20%	40%	60%	-10%
EC	--	<80	-22° to 122°	15 to 90%		20%	40%	60%	-10%
EC	<40	<70	-4° to 104°	16 to 90%		20%	40%	60%	-10%
EC	<40	<60	-4° to 104°	15 to 95%		20%	40%	60%	-10%
EC	--	<200	-22° to 122°	15 to 90%		20%	40%	60%	-10%
EC	--	<120	-22° to 122°	15 to 90%		20%	40%	60%	-10%
EC	--	<90	-4° to 104°	15 to 90%		20%	40%	60%	-10%
EC	--	<55	-22° to 122°	15 to 90%		20%	40%	60%	-10%
IR	--	<30	-4° to 122°	0 to 95%	Specify span when ordering	20%	40%	60%	-10%
IR	--	<30	-4° to 122°	0 to 95%	Low power IR	20%	40%	--	-10%
IR	<5	<10	-40° to 158°	0 to 99%	Millenium sensor	20%	40%	60%	-10%
EC	--	<30	-22° to 122°	15 to 90%		20%	40%	60%	-10%
EC	--	<75	-22° to 122°	15 to 90%		20%	40%	60%	-10%
EC	--	<60	-22° to 104°	15 to 85%		20%	40%	60%	-10%
EC	--	<40	-4° to 122°	15 to 90%		20%	40%	60%	-10%
EC	--	<15	-22° to 131°	5 to 95%		19	18	17	-2.5
EC	--	<150	-4° to 122°	15 to 90%		20%	40%	60%	-10%
IR	<5	<10	-40° to 158°	up to 99%	Millenium sensor	20%	40%	60%	-10%



