SENSOR TARGET GAS	SENSOR TYPE	STANDARD RANGE	INSTRUMENT DISPLAYED RESOLUTION	SENSOR RESOLUTION	MAXIMUM RANGE	INSTRUMENT DISPLAYED RESOLUTION	SENSOR RESOLU-TION	LONG TERM DRIFT	RESPONSE TIME	WARM UP TIME AT SWITCH ON	RECOMMENDED CALIBRATION FREQUENCY	OPERATING TEMPERATURE	OPERATING HUMIDITY	OPERATING LIFE (EXPECTED)	CROSS SENSITIVITIES
Carbon Dioxide (CO_2)	Single beam IR	0 - 5000 ppm	6.25 ppm	40 ppm				< 2% of FS over life of sensor	< 2 minutes for 90% step change typical	5-min. operational, 10-min. max. accuracy	2 years, 1 year best accuracy	0° to +50°C (32° to 122° F)	0-95% non-condensing	10-15 years	None
Carbon Dioxide (CO_2)	Dual beam IR	0 - 1.0% volume	0.1% volume	1% of measuring range				50 ppm (+/-) / month (maximum 150 ppm / year)	t_{90} = >20-sec. @ 20°C	5-min. operational, 10-min. max. accuracy	2 years, 1 year best accuracy	minus 20° to +50° C (-4° to 122° F)	0-95% non-condensing	10-15 years	None
Carbon Dioxide (CO_2)	Dual beam IR				0 - 5.0% volume	0.004% volume	1% of measuring range	50 ppm (+/-) / month (maximum 150 ppm / year)	t_{90} = >20-sec. @ 20°C	5-min. operational, 10-min. max. accuracy	2 years, 1 year best accuracy	minus 20° to +50° C (-4° to 122° F)	0-95% non-condensing	10-15 years	None
Carbon Dioxide (CO_2)	Dual beam IR	0 - 100% volume	**NOT YET AVAILABLE**												
Carbon Monoxide (CO)	Electrochemical	0 - 50 ppm	0.05 ppm	0.5 ppm				<2% / month	t90 =< 25-sec. from 0 to 400 ppm	2-min. operational	6 months	minus 30° to +50° C (-22° to 122° F)	15-90% non-condensing	2 years to 3 years	SO_2 @ 20 ppm=<0.1 ppm NO @ 50 ppm= <5 ppm NO_2 @ 10 ppm= <0.1 ppm Cl_2 @ 10 ppm= < 0.1 ppm H_2 @ 400 ppm= < 70 ppm C_2H_4 @ 400 ppm= < 25 ppm H_2S @ 20 ppm= < 0.1 ppm NH_3 @ 20 ppm= < .01 ppm
Carbon Monoxide (CO)	Electrochemical				0 - 1500 ppm	1 ppm	1 ppm	<5% signal loss per year	t90 =< 30-sec.	2-min. operational	6 months	minus 20° to +50° C (-4° to 122° F)	15-90% non-condensing	2 years to 3 years	SO_2 @ 5 ppm= 0 ppm NO @ 35 ppm= <3 ppm NO_2 @ 20 ppm= 1 ppm Cl_2 @ 1 ppm= 0 ppm H_2 @ 100 ppm= < 40 ppm H_2S @ 15 ppm= < 0.5 ppm C_2H_4 @ 100 ppm= <50 ppm
Nitrogen Dioxide (NO_2)	Electrochemical	0 - 5.0 ppm	0.01 ppm	0.02 ppm				<4% / month in clean air	t90 =< 40-sec. from 0 to 10 ppm	2-min. operational	6 months	minus 20° to +50° C (-4° to 122° F)	15-90% non-condensing	2 years to 3 years	C_2H_2 @ 50 ppm= <0.1 ppm NO @ 50 ppm= <0.5 ppm SO_2 @ 20 ppm= <-2.5 ppm Cl_2 @ 10 ppm= 100 ppm H_2 @ 400 ppm= <0.1 ppm H_2S @ 20 ppm= <-40 ppm CO @ 400 ppm= <0.1 ppm NH_3 @ 20 ppm= <0.1 ppm
Nitrogen Dioxide (NO_2)	Electrochemical				0 - 100 ppm	0.02 ppm	0.07 ppm	<4% / month in clean air	t90 =< 40-sec. from 0 to 10 ppm	2-min. operational	6 months	minus 20° to +50° C (-4° to 122° F)	15-90% non-condensing	2 years to 3 years	C_2H_2 @ 50 ppm= <0.1 ppm NO @ 50 ppm= <0.5 ppm SO_2 @ 20 ppm= <-2.5 ppm Cl_2 @ 10 ppm= 100 ppm H_2 @ 400 ppm= <0.1 ppm H_2S @ 20 ppm= <-40 ppm CO @ 400 ppm= <0.1 ppm NH_3 @ 20 ppm= <0.1 ppm
Temperature	Neg. Co-effic. Thermistor	0-50 deg. C. 32-122 deg. F.	0.1 deg. C @ 25 deg. C.	0.1 deg. C @ 25 deg. C.				0.5°C (+/-)	less than 10 seconds	5-min. operational, 20-min. max. accuracy	1 year for best performance	0 to 50 deg. C. (32-122 deg. F.)	N/A	3 years plus	N/A
Relative Humidity (RH)	Thin film capacitive	0-100% RH	0.2% rh	0.4% RH				2% (+/-)	less than 10 seconds	5-min. operational, 20-min. max. accuracy	1 year for best performance	0 to 50 deg. C. (32-122 deg. F.)	N/A	3 years plus	N/A
Combustibles	Catalytic Pellistor	0-100% LEL	0.5% LEL	0.5% LEL				<-0.5% @ 50°C	t_{90} = <12-sec. from air to 50% LEL	2-min. operational	6 months	minus 30° to +50° C (-22° to 122° F)	15-90% non-condensing	2 years plus	Other combustible gases and vapours
Total Volatile Organic Compounds (TVOC)	PID	0-20 PPM	0.01 ppm	<0.01 ppm Isobutylene				nd.	<20 seconds	10-20 minutes if used on a daily basis	monthly (usage dependent)	minus 40° to +40° C (-40° to 104° F)	0-90% non-condensing	1 year bulb replacement, depending on usage	Many chemicals & gases. Refer to manual
Total Volatile Organic Compounds (TVOC)	PID				0-2000 ppm	1.3 ppm	0.1 ppm Isobutylene	nd.	<20 seconds	10-20 minutes if used on a daily basis	monthly (usage dependent)	minus 40° to +40° C (-40° to 104° F)	0-90% non-condensing	1 year bulb replacement, depending on usage	Many chemicals & gases. Refer to manual
Oxygen (O_2)	Electrochemical	0 - 25.0% volume	0.02% volume	0.02% volume				<1% change in 3 months	t_{90} = <15-sec. from 20.9% to 0%	2-min. operational	6 months	minus 30° to +55° C (-22° to 131° F)	0 to 95% RH @ 40oC	2 years	CO_2 = 0.1% O2 per % CO_2 @ 5% CO_2

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Oxygen (O_2)	Electrochemical				0 - 30.0% volume	0.03% volume	0.02% volume	<1% change in 3 months	t_{90} = <15-sec. from 20.9% to 0%	2-min. operational	6 months	minus 30° to +55° C (-22° to 131° F)	0 to 95% RH @ 40°C	2 years	CO_2 = 0.1% O_2 per % CO2 @ 5% CO_2
Ozone (O_3)	Electrochemical	0-1.00 ppm	0.004 ppm	0.02 ppm				<10%/6 months @ 20°C and 30% to 50% RH	t90=<60 seconds calculated from 3-min. exposure @ 30 cc/min. flow	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	15-90% non-condensing	1.5 years	Cl_2 @ 1ppm=1.2 ppm ClO_2 @ 1ppm=1.5 ppm N_2H_4@ 3 ppm=-3 ppm NO_2 @ 10ppm=6 ppm H_2S@20 ppm=-1.6ppm
Ammonia (NH_3)	Electrochemical	0 - 50 ppm	004 ppm	0.5 ppm				<5% per six months	t90=<60 seconds calculated from 5-min. exposure	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	15-90% non-condensing	2 years	H_2S @ 20 ppm=2 ppm The cross sensitivity list has not been fully completed. Sensor might be senisitive to other gases
Ammonia (NH_3)	Electrochemical				0-1000 ppm	0.48 ppm	<12 ppm @ 20°C	<10% in 6 months	t90=<90 seconds calculated from 5-min. exposure	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	15-90% non-condensing	2 years	SO_2 @ 20 ppm = -40 ppm H_2S @ 20 ppm= 2 ppm
Chlorine (Cl_2)	Electrochemical	0 - 5.0 PPM	0.001 ppm	0.02 ppm				<10% in 6 months	t90=<30 seconds calculated from 2-min. exposure	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	10-90% non-condensing	2 years	Br @ 1 ppm= 1.0 ppm ClO_2 @ 1ppm= 0.5 ppm F_2 @ 1.0 ppm= 0.4 ppm NO_2 @ 10 ppm= 2 ppm O_3 @ 0.25 ppm= 0.05 ppm SO_2 @ 20 ppm= 3.5 ppm
Chlorine (Cl_2)	Electrochemical				0-50 ppm	0.03 ppm	0.05 ppm @ 20°C	<10% in 6 months	t90=<30 seconds calculated from 2-min. exposure	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	10-90% non-condensing	2 years	Br @ 1 ppm= 1.0 ppm ClO_2 @ 1ppm= 0.5 ppm F_2 @ 1.0 ppm= 0.4 ppm NO_2 @ 10 ppm= 2 ppm O_3 @ 0.25 ppm= 0.05 ppm SO_2 @ 20 ppm= 3.5 ppm
Chlorine Dioxide (ClO_2)	Electrochemical	0-1.0 ppm	0.01 ppm	0.02 ppm				<5%/6 months	t90=<120 seconds calculated from 2-min. exposure	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	15-95% non-condensing	2 years	AsH_3 @ 0.2 ppm= -0.01 ppm Cl_2 @ 1ppm=0.3 ppm +/- 0.1 ClF_3 @ 1 ppm= 1 ppm HCN @ 20ppm= -0.9 ppm NO_2 @10ppm=3.7 ppm
Nitric Oxide (NO)	Electrochemical	0 - 100 PPM	0.01 ppm	0.2 ppm				0.5 ppm +/- @ -20°C and 1 to 3 PPM @ +50° C	t90=<20 seconds from 0 to 50 ppm	2-min. operational	6 months	minus 30° to +50° C (-22° to 122° F)	15-90% non-condensing	2 years	NO_2 @ 50 ppm= <5 ppm SO_2 @ 20 ppm= <2 ppm Cl_2 @ 10 ppm= <15 ppm H_2 @ 400 ppm= <0.1 ppm H_2S @ 20 ppm= <15 ppm CO @ 400 ppm= <0.1 ppm NH_3 @ 20 ppm= <0.1 ppm
Nitric Oxide (NO)	Electrochemical				0-250 ppm	0.2 ppm	0.5 ppm	0.5 ppm +/- @ -20°C and 1 to 3 PPM @ +50° C	t90=<20 seconds from 0 to 50 ppm	2-min. operational	6 months	minus 30° to +50° C (-22° to 122° F)	15-90% non-condensing	2 years	NO_2 @ 50 ppm= <5 ppm SO_2 @ 20 ppm= <2 ppm Cl_2 @ 10 ppm= <15 ppm H_2 @ 400 ppm= <0.1 ppm H_2S @ 20 ppm= <15 ppm CO @ 400 ppm= <0.1 ppm NH_3 @ 20 ppm= <0.1 ppm
Hydrogen (H_2)	Electrochemical	0 - 2000 PPM	1.3 ppm	<15 ppm @ 20°C				<10% in 6 months	t90=<70 seconds calculated from 2-min. exposure	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	15-90% non-condensing	2 years	CO @ 100ppm= 135 ppm ClO_2 @ 1 ppm= -8 ppm C_2H_4 @ 500 ppm = yes; nd HCN @ 20 ppm= 12 ppm C_3H_8O @ 1100 ppm= yes; nd NO_2 @ 10 ppm= -43 ppm O_3 @ 0.25= 1 ppm SO_2 @ 5 ppm= 13 ppm

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Hydorgen Flouride (HF)	Electrochemical	0-10 ppm	0.01 ppm	<0.01 ppm @ 20°C				<10% in 6 months	t90=<90 seconds calculated from 4-min. exposure	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	15-90% non-condensing	1.5 years	$C_2H_4O_2$ @ 100 ppm= yes; nd Cl_2 @ 1 ppm= 0.7 ppm H_2 @ 3000 ppm= <1 ppm HCl @ 10 ppm= 6 ppm SO_2 @ 20 ppm= 20 ppm
Phosgene ($COCl_2$)	Electrochemical	0-1.0 ppm	0.01 ppm	<0.02 ppm @ 20°C				<5% in 6 months	t90=<120 seconds calculated from 2-min. exposure @ 40% RH	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	15-90% non-condensing	1 year	AsH_3 @ 0.2 ppm= -0.18 ppm Cl_2 @ 1 ppm= 0.4 ppm ClO_2 @ 1 ppm= -3 ppm HCl @ 10 ppm= 25 ppm H_2S @ 20 ppm= yes; nd NO_2 @ 10 ppm= -1 ppm O_3 @ 0.25 ppm= 0.03 ppm
Hydrazine (N_2H_4)	Electrochemical	0-1.0 ppm	0.004 PPM	< 0.01 ppm @ 20°C				<10% / 6 months	t90=<120 seconds calculated from 4-min. exposure	2-min. operational	6 months	minus 10° to +40° C (14° to 104° F)	20-95% non-condensing	1.5 years	NH_3 @ 200ppm= 0.04 ppm AsH_3 @ 0.1 ppm= 0.1 ppm Cl_2 @ 1 ppm = 0.75 ppm HCN @ 20 ppm= 0.7 ppm H_2S @ 1 ppm= 0.1 ppm C_3H_8O @ 200 ppm= 11ppm NO_2 @ 10 ppm= -5.4 ppm O_3 @ 0.25= -0.2 ppm SO_2 @ 5 ppm= 0.5 ppm
Hydorgen Chloride (HCl)	Electrochemical	0-30 ppm	0.03 ppm	<0.7 ppm @ 20°C				<3% / month	t90=<70 seconds calculated from 4-min. exposure	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	15-95% non-condensing	2 years	NH_3 @ 100ppm= 0.1 ppm AsH_3 @ 0.2 ppm= 0.7 ppm Cl_2 @ 5 ppm = 0.3 ppm HCN @ 20 ppm= 7 ppm H_2S @ 20 ppm= 13 ppm NO @ 100 ppm= 45ppm NO_2 @ 10 ppm= 0.3 ppm PH_3 @ 0.1= 0.3 ppm SO_2 @ 20 ppm= 8 ppm
Hydrogen Cyanide (HCN)	Electrochemical	0-50 ppm	0.05 ppm	<0.2 ppm @ 20°C				<2% / month	t90=<200 seconds	2-min. operational	6 months	minus 20° to +50° C (-4° to 122° F)	15-90% non-condensing	2 years	CO @ 300 ppm= <15 ppm H_2S @ 15 ppm = ~90 ppm SO_2 @ 20 ppm= 40<x$< 75 ppm NO @ 35 ppm= -28<x$<0 ppm NO_2 @ 5 ppm= -20<x$<-10 ppm C_2H_4 @ 100 ppm= <25 ppm
Hydrogen Cyanide (HCN)	Electrochemical				0-100 ppm	0.1 ppm	0.5 ppm	<2% / month	t90=<200 seconds	2-min. operational	6 months	minus 20° to +50° C (-4° to 122° F)	15-90% non-condensing	2 years	CO @ 300 ppm= <15 ppm H_2S @ 15 ppm = ~90 ppm SO_2 @ 20 ppm= 40<x$< 75 ppm NO @ 35 ppm= -28<x$<0 ppm NO_2 @ 5 ppm= -20<x$<-10 ppm C_2H_4 @ 100 ppm= <25 ppm
Hydrogen Sulphide (H_2S)	Electrochemical	0 - 50 ppm	0.05 ppm	0.05 ppm				<0.1 ppm / year in clean air	t90=<25 seconds from 0 to 20 ppm	2-min. operational	6 months	minus 30° to +50° C (-22° to 122° F)	15-90% non-condensing	2 years	SO_2 @ 20 ppm= <10 ppm NO @ 50 ppm = <4 ppm NO_2 @ 10 ppm= <-20 ppm Cl_2 @ 10 ppm= -25 ppm H_2 @ 400 ppm= <0.2 ppm C_2H_4 @ 400 ppm= <0.5ppm CO @ 400 ppm= <1.5 ppm NH_3 @ 20 ppm= <0.1 ppm

SENSOR TARGET GAS	SENSOR TYPE	STANDARD RANGE	INSTRUMENT DISPLAYED RESOLUTION	SENSOR RESOLUTION	MAXIMUM RANGE	INSTRUMENT DISPLAYED RESOLUTION	SENSOR RESOLU-TION	LONG TERM DRIFT	RESPONSE TIME	WARM UP TIME AT SWITCH ON	RECOMMENDED CALIBRATION FREQUENCY	OPERATING TEMPERATURE	OPERATING HUMIDITY	OPERATING LIFE (EXPECTED)	CROSS SENSITIVITIES
Hydrogen Sulphide (H_2S)	Electrochemical				0-500 ppm	0.48 ppm	0.1 ppm	<0.1 ppm / year in clean air	t90=<25 seconds from 0 to 20 ppm	2-min. operational	6 months	minus 30° to +50° C (-22° to 122° F)	15-90% non-condensing	2 years	SO_2 @ 20 ppm= <10 ppm NO @ 50 ppm = <4 ppm NO_2 @ 10 ppm= <-20 ppm Cl_2 @ 10 ppm= -25 ppm H_2 @ 400 ppm= <0.2 ppm C_2H_4 @ 400 ppm= <0.5ppm CO @ 400 ppm= <1.5 ppm NH_3 @ 20 ppm= <0.1 ppm
Sulphur Dioxide (SO_2)	Electrochemical	0 - 20 ppm	0.02 ppm	<0.1 ppm				<2% change/month in clean air	t90=<25 seconds from 0 to 10 ppm	2-min. operational	6 months	minus 30° to +40° C (-22° to 104° F)	15-90% non-condensing	2 years	Filter = 800 ppm hours H_2S NO @ 50 ppm = <4 ppm NO_2 @ 20 ppm= <-100 ppm Cl_2 @ 10 ppm= <-70 ppm H_2 @ 10 ppm= <0.2 ppm CO @ 400 ppm= <4ppm C_2H_4 @ 400 ppm= <15 ppm NH_3 @ 20 ppm= <0.1 ppm
Sulphur Dioxide (SO_2)	Electrochemical				0-50 ppm	0.03 ppm	0.1 ppm	<2% change/month in clean air	t90=<25 seconds from 0 to 10 ppm	2-min. operational	6 months	minus 30° to +40° C (-22° to 104° F)	15-90% non-condensing	2 years	Filter = 800 ppm hours H_2S NO @ 50 ppm = <4 ppm NO_2 @ 20 ppm= <-100 ppm Cl_2 @ 10 ppm= <-70 ppm H_2 @ 10 ppm= <0.2 ppm CO @ 400 ppm= <4ppm C_2H_4 @ 400 ppm= <15 ppm NH_3 @ 20 ppm= <0.1 ppm
Flourine (F_2)	Electrochemical	0-1.0 ppm	0.003 ppm	<0.02 ppm @ 20°C				<5% / month	t90=<80 seconds calculated from 4-min. exposure with 1 ppm Cl2	2-min. operational	6 months	minus 10° to +40° C (14° to 104° F)	15-90% non-condensing	1.5 years	AsH_3 @ 0.2 ppm= 1 ppm Br = yes, nd CO @ 100 ppm= 1 ppm Cl_2 @ 1 ppm= 1.4 ppm B_2H_6 @ 0.25 ppm= 0.4ppm HCN @ 1 ppm= -3 ppm H_2S @ 1 ppm= -2 ppm NO_2 @ 10 ppm= -19 ppm O_3 @ 0.25 ppm= 0.3 ppm PH_3 @ 0.3 ppm= yes, nd. SO_2 @ 20 ppm= 0.04 ppm
Phosphine (PH_3)	Electrochemical	0-1.0 ppm	0.004 ppm	<15 ppb @ 20°C				<5% / 6 months	t90=<30 seconds calculated from 2-min. exposure	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	20-95% non-condensing	1.5 years	NH_3 @ 100 ppm= 0.1 ppm Cl_2 @ 1 ppm = -0.07 ppm B_2H_6 @ 0.25 ppm= 0.18 ppm SiH_4 @ 5 ppm= 3.8 ppm HCN @ 20 ppm= 0.5 ppm H_2S @ 20 ppm= 5ppm PH_3 @ 0.1 ppm= 0.13 ppm SO_2 @ 20 ppm= 2 ppm NO_2 @ 10 ppm= -2 ppm
Arsine (AsH_3)	Electrochemical	0-1.0 ppm	0.004 ppm	<15 ppb @ 20°C				<5% / 6 months	t90=<30 seconds calculated from 2-min. exposure	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	20-95% non-condensing	1.5 years	NH_3 @ 100 ppm= 0.1 ppm Cl_2 @ 1 ppm = -0.07 ppm B_2H_6 @ 0.25 ppm= 0.18 ppm SiH_4 @ 5 ppm= 3.8 ppm HCN @ 20 ppm= 0.5 ppm H_2S @ 20 ppm= 5ppm PH_3 @ 0.1 ppm= 0.13 ppm SO_2 @ 20 ppm= 2 ppm NO_2 @ 10 ppm= -2 ppm

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Silane (SiH_4)	Electrochemical	0-50 ppm	0.03 ppm	<0.05 ppm @ 20°C				<5% / 6 months	t90=<60 seconds calculated from 2-min. exposure	2-min. operational	6 months	minus 20° to +40° C (-4° to 104° F)	20-95% non-condensing	1.5 years	AsH_3 @ 0.2 ppm= 0.2 ppm B_2H_6 @ 0.25 ppm= 0.12 ppm HCN @ 20 ppm= 0.5 ppm H_2S @ 2 ppm= 8ppm PH_3 @ 0.1 ppm= 0.13 ppm SO_2 @ 20 ppm= 4 ppm NO_2 @ 10 ppm= -2 ppm
Formaldehyde (HCHO)	Electrochemical	0-10 ppm	0.01 ppm	0.05 ppm				<2% signal loss / month	t90=<50 seconds (tested at 20°C and 50% RH)	2-min. operational	6 months	minus 20° to +45° C (-4° to 113° F)	15-90% non-condensing	3 years in air	H_2 = < 20% CO = < 80% Interference from other reducing gases such as alcohol
Formaldehyde (HCHO)	Electrochemical				0-50 ppm	0.03 ppm	0.05 ppm	<2% signal loss / month	t90=<50 seconds (tested at 20°C and 50% RH)	2-min. operational	6 months	minus 20° to +45° C (-4° to 113° F)	15-90% non-condensing	3 years in air	H_2 = < 20% CO = < 80% Interference from other reducing gases such as alcohol

ADDITIONAL CHEMICAL SYMBOLS NOT DEFINED ABOVE:

Br.	Bromine
C_2H_4	Ethylene
ClF3	Chlorine Trifluoride
C_2H_2	Acetylene
C_3H_8O	Isopropyl Alcohol
B_2H_6	Diborane

NOTES:

1) Some sensors may be calibrated with correlation gases. If you prefer to have specific sensors calibrated with the target gas, contact our factory for availability and extra costs. Customer will have to bear the cost of the full cylinder of specialty gas in these cases.
2) This specification has been developed from data considered accurate at the time. No warranty is implied or suggested based on this data. We accept no responsibility for errors or omissions.
3) YES Environment Technoligies Inc. reserves the right to make design and specification changes without prior notice.