

CETCI's SUGGESTED GAS ALARM SETPOINTS

Gas	Sensor Type	Mounting Height	Coverage in ft ²	Standard Range	Low Alarm	Mid Alarm	High Alarm
Ammonia (NH ₃)	EC	on or near the ceiling	3,000	0 - 500 ppm	25 ppm	50 ppm	200 ppm
Carbon Dioxide (CO ₂)	IR	breathing zone	3,000	0 - 2,000 ppm	800 ppm	1,000 ppm	1,200 ppm
Carbon Dioxide (CO ₂)	IR	breathing zone	3,000	0 - 4.0% vol	1.0% vol	2.0% vol	3.0% vol
Carbon Monoxide (CO)	EC	breathing zone	5,000-7,500	0 - 200 ppm	25 ppm	50 ppm	100 ppm
Chlorine (Cl ₂)	EC	6" from floor	3,000	0 - 5.0 ppm	0.5 ppm	0.7 ppm	1.0 ppm
Propane (C ₃ H ₈) (combustible)	C	6" from floor	3,000	0 - 100% LEL	10% LEL	15% LEL	20% LEL
Methane (CH ₄) (combustible)	C	on or near the ceiling	5,000	0 - 100% LEL	10% LEL	15% LEL	20% LEL
Hydrogen (H ₂) (combustible)	C	on or near the ceiling	5,000	0 - 100% LEL	10% LEL	15% LEL	20% LEL
Hydrogen (H ₂)	EC	application dependent	3,000	0 - 2,000 ppm	200 ppm	500 ppm	1,000 ppm
Ethylene (C ₂ H ₄)	EC	breathing zone	5,000	0 - 200 ppm	25 ppm	35 ppm	50 ppm
Ethylene Oxide (ETO)	EC	6" from floor	3,000	0 - 20 ppm	1 ppm	2 ppm	3 ppm
Fluorine (F ₂)	EC	6" from floor	3,000	0 - 2 ppm	0.1 ppm	0.2 ppm	0.3 ppm
Formaldehyde (CH ₂ O)	EC	12" from floor	3,000	0 - 5 ppm	0.3 ppm	0.5 ppm	1.0 ppm
Hydrogen Cyanide (HCN)	EC	12" from floor	3,000	0 - 30 ppm	2 ppm	3 ppm	5 ppm
Hydrogen Chloride (HCl)	EC	12" from floor	3,000	0 - 30 ppm	1 ppm	1.5 ppm	2 ppm
Hydrogen Sulphide (H ₂ S)	EC	12" from floor	3,000	0 - 50 ppm	10 ppm	12 ppm	15 ppm
Nitric Oxide (NO)	EC	breathing zone	5,000	0 - 100 ppm	25 ppm	35 ppm	50 ppm
Nitrogen Dioxide (NO ₂)	EC	breathing zone	5,000	0 - 5.0 ppm	0.7 ppm	1.0 ppm	1.5 ppm
Oxygen (O ₂)	EC	breathing zone	5,000	0 - 25.0% vol	19.5% vol	18.5% vol	23.0% vol
Ozone(O ₃)	EC	2' from floor	3,000	0 - 2.0 ppm	0.1 ppm	0.2 ppm	0.3 ppm
Phosphine (PH ₃)	EC	6" from floor	3,000	0 - 1.0 ppm	0.3 ppm	0.5 ppm	1 ppm
Silane (SiH ₄)	EC	6" from floor	3,000	0 - 1.0 ppm	0.3 ppm	0.5 ppm	1 ppm
Sulphur Dioxide (SO ₂)	EC	6" from floor	3,000	0 - 20 ppm	2 ppm	3 ppm	5 ppm
All Freon refrigerants	MOS (solid-state)	12" from floor	3,000	0 - 2,000 ppm	250 ppm	500 ppm	1,000 ppm
All Freon refrigerants	IR	12" from floor	3,000	0 - 3,500 ppm	250 ppm	500 ppm	1,000 ppm
R123 refrigerant (only)	IR	12" from floor	3,000	0 - 1,000 ppm	50 ppm	75 ppm	100 ppm
TVOCS	MOS (solid-state)	6" from floor	3,000	0 - 500 ppm	50 ppm	100 ppm	200 ppm

IR = Infrared EC = Electrochemical C = Catalytic