

Gases and ranges

Gas	LTEL (ppm) LEL (% Vol)	STEL UEL (% vol)	Range available: Type 1	Range available: Type 2	Range available: Type 3, 4, 5 & Xsafe	Range available: Type 6
Acetylene (C ₂ H ₂)	2.3	100	-	-	0-100%* LEL	-
Ammonia (NH ₃)	25 15	35 33.6	50, 100, 250, 500, 1000 ppm	-	0-25%* LEL	-
Argon (Ar)	-	-	-	-	-	Contact Crowcon
Arsine (AsH ₃)	0.05	-	1 ppm	-	-	-
Bromine (Br ₂)	0.1	0.2	3 ppm	-	-	-
Butane (C ₄ H ₁₀)	1.4	9.3	-	-	0-100%* LEL*	-
Carbon dioxide (CO ₂)	5000 (0.5% Vol)	5000 (1.5% Vol)	-	-	-	Contact Crowcon
Carbon monoxide (CO)	30	200	50, 100, 200, 250, 500, 1000, 2000 ppm	50, 100, 200, 250, 500, 1000, 2000 ppm	-	-
Chlorine (Cl ₂)	-	0.5	3, 5, 10, 20, 50, 100 ppm	-	-	-
Chlorine Dioxide (ClO ₂)	0.1	0.3	1 ppm	-	-	-
Diborane (B ₂ H ₆)	0.1	-	1 ppm	-	-	-
Ethane (C ₂ H ₆)	2.4	15.5	-	-	0-100%* LEL	-
Ethylene (C ₂ H ₄)	2.3	36	-	-	0-100%* LEL	-
Ethylene oxide (C ₂ H ₄ O)	5	-	10, 50, 100 ppm	-	-	-
Fluorine (F ₂)	1	1	1 ppm	-	-	-
Germane (GeH ₄)	0.2	0.6	2 ppm	-	-	-
Helium (He)	-	-	-	-	-	Contact Crowcon
Hydrogen (H ₂)	4	77	200, 2000 ppm	200, 2000 ppm 100% LEL	0- 100%* LEL 50% LEL, 100% LEL	0-5%, 10%, 50% wv (in air) 0-20%, 25%, 30%, 50% wv (H ₂ in N ₂)
Hydrogen chloride (HCl)	1	5	10, 25 ppm	-	-	-
Hydrogen cyanide (HCN)	-	10	25 ppm	-	-	-
Hydrogen fluoride (HF)	1.8	3	10 ppm	-	-	-
Hydrogen sulphide (H ₂ S)	5	10	5, 10, 20, 25, 50, 100, 200, 250, 300, 1000 ppm	5, 10, 20, 25, 50, 100, 200 ppm	-	-
LPG	2	10	-	-	0- 100% LEL	-
Methane (CH ₄)	4.4	17	-	-	0- 100% LEL	-
Nitric Oxide (NO)	5*1	5*1	25, 50, 100 ppm	-	-	-
Nitrogen dioxide (NO ₂)	1*1	1*1	10, 50, 100 ppm	-	-	-
Ozone (O ₃)	-	0.2	1 ppm	-	-	-
Oxygen (O ₂)	-	-	25% Vol	25% Vol	-	-
Pentane (C ₅ H ₁₂)	1.1 600 ppm	8.7 1800 ppm	-	-	0- 100%* LEL	-
Petrol vapour	1.4	6	-	-	0- 100%* LEL	-
Phosgene (COCl ₂)	0.02	0.06	1 ppm	-	-	-
Phosphine (PH ₃)	0.1	0.2	1 ppm	-	-	-
Propane (C ₃ H ₈)	1.7	10.9	-	-	0- 100%* LEL	-
Silane (SiH ₄)	0.5	1	1 ppm	-	-	-
Sulphur Dioxide (SO ₂)	1*1	1*1	10, 20, 50, 100, 250 ppm	-	-	-
Vinyl chloride (VCM) (CH ₂ =CHCl)	3.6 3	33 -	-	-	0- 100%* LEL	-
Volatile organics (VO)*2	-	-	0-100 ppm *2	-	-	-

* Ranges not available for Xsafe or Xgard Type 4
 LTEL & STEL figures are derived from the UK HSE document: EH40 2011
 Alternative thresholds may apply in countries outside of the UK
 LEL figures derived from EN60079-20-1: 2010

*1 Current limits advised in the UK
 *2 Nominal 0-100ppm range with Carbon Monoxide (CO).
 Other sensors and ranges may be available, please contact Crowcon.