

Instrument Ranges

Approximate Conversion Factors	Formula	Molecular Weight	mg/m ³ > ppm	ppm > mg/m ³	Protea 2000
Ammonia	NH ₃	17.03	1.32	0.76	0-100 ppm
Butane	C ₄ H ₁₀	58.12	0.39	2.59	0-100 ppm
Carbon Dioxide (gaseous)	CO ₂	44.01	0.51	1.96	0-100 ppm
Carbon Monoxide	CO	28.01	0.80	1.25	0-150 ppm
Chlorine	Cl ₂	70.91	0.32	3.17	
Chlorine Dioxide	ClO ₂	67.5	0.33	3.01	
Ethane	C ₂ H ₆	30.07	0.74	1.34	0-200 ppm
Ethylene	C ₂ H ₄	28.05	0.80	1.25	0-500 ppm
Fluorine	F ₂	38.00	0.59	1.70	
Hydrogen Chloride	HCl	36.46	0.61	1.63	0-500 ppm
Hydrogen Fluoride	HF	20.00	1.12	0.89	0-200 ppm
Hydrogen Sulphide	H ₂ S	34.08	0.66	1.52	
Mercury	Hg	200.60	0.11	8.96	
Methane	CH ₄	16.04	1.40	0.72	0-300 ppm
Nitrates in Water	NO ₃				
Nitric Oxide	NO	30.01	0.75	1.34	0-240 ppm
Nitrous Oxide	N ₂ O	44.00	0.51	1.97	0-300 ppm
Nitrogen Dioxide	NO ₂	46.01	0.49	2.05	0-200 ppm
Ozone	O ₃	48.00	0.47	2.14	
Propane	C ₃ H ₈	44.10	0.51	1.97	0-100 ppm
Sugar in Water					
Sulphur Dioxide	SO ₂	64.06	0.35	2.86	0-100 ppm
Trichloroethane	C ₂ H ₃ Cl ₃	133.40	0.17	5.96	0-100 ppm
Water in Gases	H ₂ O(g)	18.02	1.24	0.80	0-2000 ppm

These are minimum ranges (Full Scale). Normally maximum ranges are up to 100%. Conversion factor shown are for 273°K and 100kPa. Note: 0.1% VOL. Gas = 1000ppm

The table shows only some of the components and range measured by PROTEA IR Analyser. Many other applications are available.



Note some approvals subject to instrument or application

Protea Ltd
10 Prosperity Court
Midpoint 18
Middlewich
Cheshire
CW10 0GD
UK
Tel: 01270 872 000
mail@protea.ltd.uk

Distributed by:

