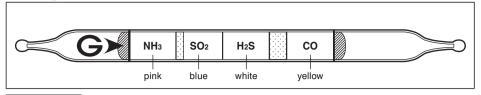
Polytec I



Performance

Number of pump strokes	n=1		
Sampling time	1 minute per 1 pump stroke (100mL)		
Shelf life	2 years		

Reaction principle

See the table below

		NH ₃ or Amines (Pink)	SO ₂ (Blue)	H ₂ S (White)	CO (Yellow)
Reaction principle		2NH3+H2SO4 → (NH4)2SO4 or 2R·NH2+H2SO4 → (R·NH3)2SO4	SO ₂ +BaCl ₂ +H ₂ O → BaSO ₃ +2HCl HCl+Base → Chloride	H ₂ S+CuSO ₄ →CuS	CO+Na ₂ Pd(SO ₃) ₂ → Pd
Substances & expected concentration	Ammonia(≥0.5 ppm)	Yellow (Inlet)			
	(≧5 ppm)	Yellow (9 mm)			
	Hydrogen chloride(≥5 ppm)		Yellow (3 mm)		
	Chlorine(≥1 ppm)		Yellow (3 mm)		
	Sulphur dioxide(≥1 ppm)		Yellow (Inlet)		
	(≧2 ppm)		Yellow (6 mm)		
	Nitrogen dioxide (≥3 ppm)		Purple (Inlet)		
	Hydrogen sulphide(≥10 ppm)			Brown (Inlet)	
	Carbon monoxide(≥10 ppm)				Blackish brown (Inlet)
	Hydrogen(≥10000 ppm)				Blackish brown (Whole layer)
	Olefin HCs(≥10000 ppm)				Blackish brown (Whole layer)
	Mercaptans(≥10 ppm)				Blackish brown (Inlet)

Parenthesized values after substances show their concentrations, and those after the reaction colours show the lengths of their reaction colour layers.