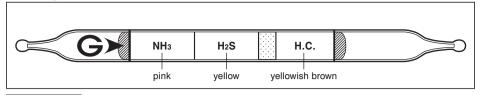
Polytec II



Performance

Number of pump strokes	n=1		
Sampling time	30 seconds per 1pump stroke (100mL)		
Shelf life	2 years		

Reaction principle

See the table below

Detecting layer { Name (Original colour)		NH3 (Pink)	H ₂ S (Yellow)	HC (Yellowish brown)
Reaction principle		2NH3+H2SO4 → (NH4)2SO4 or 2R·NH2+H2SO4 → (R·NH3)2SO4	H ₂ S + HgCl ₂ → HSHgCl+ HCl HCl + Base → Chloride	$CnHm + Cr^6 + + H_2SO_4 \rightarrow Cr^3 +$
Substances & expected concentration	Ammonia(≧0.5 ppm)	Yellow (Inlet)		
	(≧5 ppm)	Yellow (9 mm)		
	Hydrogen sulphide (≥0.5 ppm)		Red (Inlet)	
	(≥2 ppm)		Red(4 mm)	
	Sulphur dioxide(≥2 ppm)		Red(4 mm)	
	Hydrogen chloride(≧5 ppm)		Red(8 mm)	
	Chlorine(≥1 ppm)		Red(10 mm)	
	Nitrogen dioxide (≥3 ppm)		Red(4 mm)	
	Butane(≧500 ppm)			Dark brown (Whole layer)
	Gasoline(≧2 ppm)			Greenish brown (Inlet)
	(≧20 ppm)			Greenish brown (Whole layer)
	LPG(≧5000 ppm)			Dark brown (Whole layer)

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