

## **Performance**

Measuring Range	0.02 to 0.2%	0.2 to 4.0%	4.0 to 8.0%		
Number of Pump Stroke	2 to 10	1	1/2		
Correction Factor	1/2 to 1/10	1	2		
Sampling Time	1 minute per pump stroke				
Detecting Limit	0.002% (n=10)				
Colour Change	Brown → Pale Yellow				
Reaction Formula	Hydrogen sulphide and sulphur dioxide react with iodine to produce hydrogen iodide which colour is pale yellow.  H₂S + I₂ → 2HI + S  SO₂ +I₂ + H₂O → 2HI + H₂SO₄				
Coefficient of Variation	10% (for 0.2 to 1 %), 5% (for 1 to 4 %)				
Shelf Life	3 Years				
Corrections for temperature & humidity	Unnecessary				
Store the tubes at cool and dark place.					

## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Other sulphur compounds	-	Plus error	Discolour pale yellow stain

## Calibration gas generation High pressure gas cylinder method

TLV-TWA	TLV-STEL	Explosive range
H₂S – 10 ppm SO₂ - 2 ppm	H₂S – 15ppm SO₂ - 5ppm	4.0 - 44%