



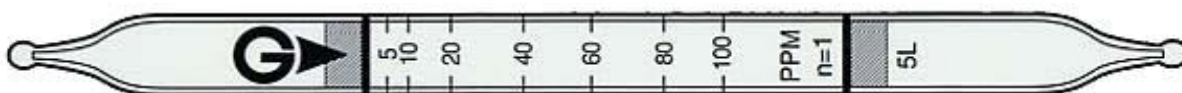
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Gastec Tube Datasheet

Sulphur Dioxide

SO₂

NO.GAS5L



Performance

Measuring Range	1.25 to 2.5ppm	2.5 to 5ppm	5 to 100ppm	100 to 200ppm
Number of Pump Strokes	4	2	1	1/2
Correction Factor	1/4	1/2	1	2
Sampling Time	1 minute per pump stroke			
Detecting Limit	0.25ppm (n=4)			
Colour Change	Blue → Yellow			
Reaction Principle	$\text{SO}_2 + \text{BaCl}_2 + \text{H}_2\text{O} \longrightarrow \text{BaSO}_3 + 2\text{HCl}$ $\text{HCl} + \text{Base} \longrightarrow \text{Chloride}$			
Coefficient of Variation	10% (for 5 to 20 ppm), 5% (for 20 to 100 ppm)			
Shelf Life	Up to 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
Carbon Monoxide, Nitric Oxide	-	No effect	No discoloration
Carbon Dioxide	-	No effect	No discoloration
Nitrogen Dioxide	≥1/1	Plus error	Produces light purple discoloration
Hydrogen Sulphide	-	No effect	No discoloration

Calibration gas generation Permeation tube method

a1-cbiss Ltd

5 Valiant Way, Lairdside Technology Park, Tranmere, CH41 9HS

www.a1-cbiss.com | sales@a1-cbiss.com | Tel: +44(0)151 666 8300 | Fax: +44(0)151 666 8329

VAT No: 539 5178 13 Company Reg No: 2414633



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