



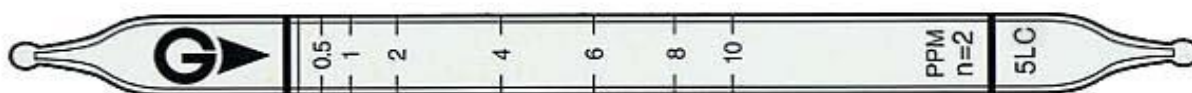
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Gastec Tube Datasheet

Sulphur Dioxide

SO₂

NO.GAS5LC



Performance

Measuring Range	0.1 to 0.25 ppm	(0.25) to 10 ppm	10 to 25 ppm
Number of Pump Strokes	4	2	1
Correction Factor	0.4	1	2.5
Sampling Time	2 minutes per pump stroke		
Detecting Limit	0.02 ppm (n=4)		
Colour Change	Bluish purple → White		
Reaction Principle	$\text{SO}_2 + \text{I}_2 + 2\text{H}_2\text{O} \longrightarrow \text{H}_2\text{SO}_4 + 2\text{HI}$		
Coefficient of Variation	10% (for 0.25 to 2 ppm), 5% (for 2 to 10 ppm)		
Shelf Life	Up to 3 Years		
Corrections for temperature & humidity	Temperature correction is necessary		
Store the tubes at cool and dark place.			

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Nitrogen Dioxide	-	Minus error (Unclear demarcation)	Produces brown stain of 1 mm around inlet of the tube
Hydrogen Sulphide	≥1/10	Plus error	Produce unclear demarcation and white stain.

Calibration gas generation Permeation tube method

Special Note

This detector tube is suitable for measuring Sulphur Dioxide coexisting with Nitrogen, Carbon Dioxide or Sulphur Hexafluoride.

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