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Gastec Tube Datasheet

Sulphur Dioxide SO₂

no.GAS5La



Performance

Measuring Range	0.5 to 1 ppm	1 to 2 ppm	2 to 30 ppm	30 to 60 ppm
Number of Pump Strokes	8	4	2	1
Correction Factor	1/4	1/2	1	2
Sampling Time	1 minute per pump stroke			
Detecting Limit	0.1ppm (n=8)			
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 2 to 10 ppm), 5% (for 10 to 30 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	100%	Faint demarcation	100% CO ₂ gives faint demarcation
Nitrogen Dioxide	≥1/1	Plus error	Produces pale purple discoloration
Hydrogen Sulphide	-	No effect	No discoloration

Other substance measurable with this detector tube

Substance	Correction Factor	pump strokes	Measuring range
Thionyl Chloride	0.72	2	1.44 to 21.6 ppm

Calibration gas generation Permeation tube method

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ISO 9001, ISO 14001
OHSAS 18001



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Special Note

If Sulphur Dioxide coexists with Carbon Dioxide, an unclear demarcation will result. In the case, please use Sulphur Dioxide tube 5LC.

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