

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Sulphur Dioxide

SO₂

SSD-5M

TLV (STEL): 0.25 ppm

Flammable Range: N/A

Specification:

Measurement Range	Extended	Standard	Extended
	10 – 50 ppm	50 - 1800 ppm	1800 - 3600 ppm
No. of Pump Strokes	5 - 2 (500-200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	1/5 to 1/2	1.0	2.0
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	Blue → Yellow		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	SO ₂ + BaCl ₂ + H ₂ O → BaSO ₃ + 2HCl HCl + Base → Chloride		
Relative standard deviation	± 10 – 15 %		

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Hydrogen sulphide	≤100	No	No effect
Carbon monoxide	≤3000	No	No effect
Ammonia	≤300	No	No effect
Nitrogen Oxide	100	+	Violet/Diffuse

Correction for Environmental Parameters:

Temperature	Not necessary between 0 - 40°C (32 - 104°F).
Relative humidity	Not necessary between 10 - 90 %.



Manufactured By: Uniphos Envirotronic Pvt. Ltd.
Nahuli (PO), Umbergaon (Tal.)
Valsad (Dist), Gujarat, India – 396105

Rev.0724