

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

H₂S & SO₂

H₂S: TWA (TLV): 1 ppm
SO₂: TWA (TLV): 2 ppm

SHS-3L & SSD-1

STEL (TLV): 5 ppm
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Flammable Range: 4-44%
Flammable Range: NA

Specification:

	Extended	Standard	Extended
Measurement Range (H ₂ S)	Do not extend	2.5-60 ppm	Do not extend
Measurement Range (SO ₂)		0.5-10 ppm	
No. of Pump Strokes		1 (100 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	2 minutes per pump stroke (100 mL)		
Color Change	H ₂ S: White → Brown ; SO ₂ : Purple → Yellow		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	H ₂ S + Pb(CH ₃ COO) ₂ → PbS + 2CH ₃ COOH SO ₂ + BaCl ₂ + H ₂ O → BaSO ₃ + 2HCl HCl + Base → Chloride		
Relative standard deviation	± 10 %		

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

Possible Interferences: (For Both H₂S & SO₂)

Compound	Concentration (ppm)	Interference	Colour change / Comments
Toluene	100	No	No effect
CO	250	No	No effect
NH ₃	100	No	No effect
Isobutylene	106	No	No effect

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.
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