

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## SO<sub>2</sub> & H<sub>2</sub>S

SO<sub>2</sub>: TLV (TWA): ----  
H<sub>2</sub>S: TLV (TWA): 1 ppm

TLV (STEL): 0.25 ppm  
TLV (STEL): 5 ppm

## SSD-1 & SHS-3L

Flammable Range: -----  
Flammable Range: 4-44%

### Specification:

	Extended	Standard	Extended
Measurement Range (SO <sub>2</sub> )	Do not extend	0.5 - 10 ppm	Do not extend
Measurement Range (H <sub>2</sub> S)	Do not extend	2.5 - 60 ppm	Do not extend
No. of Pump Strokes		1 (100 mL)	
Volume Correction Factor (VCF)*		1.0	
Sampling Time	2 minutes per pump stroke (100 mL)		
Color Change	SO <sub>2</sub> : Pink → Yellow; H <sub>2</sub> S: White → Brown		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle (Double tube)	SO <sub>2</sub> + BaCl <sub>2</sub> + H <sub>2</sub> O → BaSO <sub>3</sub> + 2HCl HCl + Base → Chloride H <sub>2</sub> S + Pb(CH <sub>3</sub> COO) <sub>2</sub> → PbS + 2CH <sub>3</sub> COOH		
Relative standard deviation	± 10 – 15 %		

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

### Possible Interferences: (For Both SO<sub>2</sub> & H<sub>2</sub>S)

Compound	Concentration (ppm)	Interference	Colour change / Comments
Toluene	100	No	No effect
Carbon monoxide	250	No	No effect
Ammonia	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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