

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Hydrogen Sulfide H₂S

TLV (TWA): 1 ppm

TLV (STEL): 5 ppm

SHS-3L

Flammable Range: 4-44%

Specification:

Measurement Range	Extended	Standard	Extended
	0.25 - 2.5 ppm	2.5 - 60 ppm	60 -120 ppm
No. of Pump Strokes	10 - 2 (1000 mL - 200 mL)	1 (100 mL)	½ (50 mL)
Volume Correction Factor (VCF)*	0.1 - 0.5	1.0	2.0
Sampling Time	1.5 minutes per pump stroke (100 mL)		
Color Change	White → Brown		
Shelf Life	3 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$H_2S + Pb(CH_3COO)_2 \rightarrow PbS + 2CH_3COOH$		
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
Mercaptans	100	No	No effect
Sulphur dioxide	100	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.
Nahuli (PO), Umbergaon (Tal.)
Valsad (Dist), Gujarat, India – 396108

Rev.0521