

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Sulphur Dioxide SO₂

TWA (TLV): 2 ppm

STEL (TLV): 5 ppm

SSD-7

Flammable Range: NA

Specification:

	Extended	Standard	Extended
Measurement Range	0.125 - 2.5 %	0.25 - 5 %	0.5 - 10%
No. of Pump Strokes	2 (200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	1 minute per pump stroke (100 mL)		
Color Change	Orange → Pale blue		
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 + Cr ⁶⁺ + H ₂ SO ₄ → Cr ³⁺		
Relative standard deviation	± 10 %		

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

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
H ₂ S		+	Slight ring
CO		+	Slight colour change
CO ₂	5%	No	No Effect
NH ₃		+	Orange to Pale blue
NO ₂	1500	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.0812