

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Carbon Dioxide

CO₂

SCD-5.2

TLV (TWA): 5000 ppm

TLV (STEL): 30,000 ppm

Non Flammable

Specification:

Measurement Range	Extended	Standard	Extended
	50 - 100 ppm	100 - 5000 ppm	5000 - 10000 ppm
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	2.0 minutes per pump stroke (100 mL)		
Color Change	White → Violet/ Purple		
Shelf Life	1 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	CO ₂ + N ₂ H ₄ → NH ₂ -NH-COOH		
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
Carbon Monoxide		No	No effect
Ammonia		No	No effect
Nitrogen dioxide		No	No effect
Sulphur dioxide		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. (100% EOU)
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