

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Carbon Dioxide CO_2

SCD-5

TWA (TLV): 5000 ppm

STEL (TLV): 30,000 ppm

Non Flammable

Specification:

	Extended	Standard	Extended
Measurement Range	150-2500 ppm	300-5000 ppm	600-10000 ppm
No. of Pump Strokes	4 (400 mL)	2 (200 mL)	1 (100 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	3.5 minutes per pump stroke (100 mL)		
Color Change	Blue → Off white		
Shelf Life	2 years		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle	$\text{CO}_2 + \text{NaOH} \rightarrow \text{NaCO}_3 + \text{H}_2\text{O}$		
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
CO	3000	No	No effect
NH_3	50000	No	No effect
NO_2	200	No	No effect
SO_2	2050	+	
n-Hexane	1500	No	No effect
Toluene	400	No	No effect

Correction for Environmental Parameters:

Temperature (°C) :	4	20	30	40
Temperature Correction Factor (TCF) *	0.9	1	1.1	1.2

Relative humidity | Not necessary between 10 - 90 %.

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



Manufactured By: Uniphos Envirotronic Pvt. Ltd.
Nahuli (PO), Umbergaon (Tal.)
Valsad (Dist), Gujarat, India – 396108

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