

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Carbon Dioxide

CO₂

SCD-10

TLV (TWA): 5000 ppm

TLV (STEL): 30,000 ppm

Non-Flammable

Specification:

Measurement Range	Extended	Standard	Extended
	2.5 - 30%	5 - 60%	Do not extend
No. of Pump Strokes	1 (100 mL)	0.5 (50 mL)	
Volume Correction Factor (VCF)*	0.5	1.0	
Sampling Time	2.0 minutes for ½ pump stroke (50 mL)		
Color Change	Blue → Off white		
Shelf Life	2 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH		
Reaction Principle	CO ₂ + NaOH → Na ₂ CO ₃ + H ₂ O		
Relative standard deviation	± 10 – 15 %		

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

Possible interferences:

Compound	Concentration (%)	Interference	Colour change / Comments
Methane	2.5	No	No Effect
Carbon monoxide	3.8	No	No Effect
Ammonia	0.05	No	No Effect
Nitrogen dioxide	0.01	No	No Effect
Hydrogen sulphide	1	No	No Effect
Sulphur dioxide	3.5	No	No Effect
n-Hexane	0.12	No	No Effect
Toluene	0.01	No	No Effect

Correction for Environmental Parameters:

Temperature (°C):	4	20	30	40
Temperature Correction Factor (TCF) *	0.93	1	1.06	1.24

Relative humidity	Not necessary between 10 - 90 %.
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* Multiply the observed reading by the correction factor (VCFXTCF) to obtain the true concentration.



Manufactured By: Uniphos Envirotronic Pvt. Ltd.
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