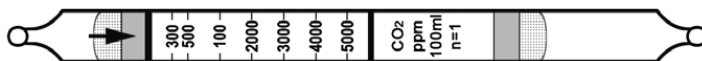


Carbon Dioxide CO₂

No. N10-104-30



	Extended Range	Standard Range	Extended Range
Range (ppmv)	150 - 2500	300 - 5000	600 - 10000
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 2	2	1.5
Correction Factor	0.5	1	2.3

Precision (Relative Standard Deviation)*: $\leq \pm 10\%$

Linearity with No. of Pump Strokes: $r^2 = 0.993$ Humidity: No effect 5 - 85% RH

Temperature Range: 0 - 40°C (32 - 104°F)

Temp (°C/°F) 0/32 10/50 21/70 40/104

Corr. Factor 0.90 0.95 1.0 0.95

Storage Life: 3 years in darkness at 5 - 25° C (40 - 77° F). Refrigeration preferred.

Color Change: White → Purple

Reaction Principle: $\text{CO}_2 + \text{H}_2\text{NNH}_2 \rightarrow \text{H}_2\text{NNHCO}_2\text{H}$ (pH indicator change)

<u>Cross-sensitivity:</u> Substance	Concentration (ppmv)	Apparent Reading*
CO	3000	0
SO ₂	2050	500
SO ₂	200	~50
NO	100	0
NH ₃	50,000	0
H ₂ S	2000	0
Hexane	1500	0
Isobutylene	100	0
Toluene	400	0

* Data based on NAGCO pumps and tubes used in standard range.

Other Possible Interferences: Acid gases. Ammonia interferes in mixtures.