

Carbon Dioxide CO₂

No. N10-104-40



	Extended Range	Standard Range	Extended Range
Range (%)	0.025 - 0.5%	0.05 - 1%	0.1 - 2%
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: $r^2 = 0.994$

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	1.2	1.1	1.0	0.75

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)

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
CO	250	0
SO ₂	10	0.1%
NO	100	0
NH ₃	10%	0
CH ₄	2.5%	0
H ₂ S	0.5%	0.1%
Hexane	1200	0
Isobutylene	100	0
Benzene	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.

