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Gas Detection Tube Data Sheet

Carbon Dioxide CO₂ No. 10-104-60

	Extended Range	Extended Range	Standard Range
Range (ppmv)	1.25 - 10%	2.5 - 20%	5 - 40%
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 1.5	1.5	1
Correction Factor	0.33	0.6	1

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

Humidity: No effect 5 - 100% RH

Temperature Range: No effect 0 - 40°C (32 - 104°F)

Storage Life: 2 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	40000	0
SO ₂	4000	~0.5
NO	100	0
NH ₃	500	0
CH ₄	25000	0
H ₂ S	10000	0
Hexane	1200	0
Isobutylene	100	0
Toluene	100	0

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

Other Possible Interferences: Acid gases

Caution: Dispose of spent or expired tubes according to local regulations.
Possibly hazardous materials are given under the section Reaction Principle.