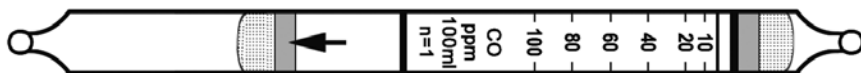


Carbon Monoxide CO No. H-10-102-20



	Extended Range	Standard Range	Extended Range
Range (ppmv)	2.5 - 50	5 - 100	10 - 200
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

Precision (Relative Standard Deviation)*: $\leq \pm 12\%$

Linearity with No. of Pump Strokes: $r^2 > 0.99$

Humidity: No effect 5 - 100% RH.

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

Temp (°C/°F)	0/32	10/50	25/77	40/104
Corr. Factor	0.80	0.83	1.0	1.15

Storage Life: 2 years in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: White → Light Brown Ring

Reaction Principle: $5\text{CO} + \text{I}_2\text{O}_5 + \text{H}_2\text{S}_2\text{O}_7 \rightarrow \text{I}_2 + \text{CO}_2 + \text{sulfur products}$

<u>Cross-sensitivity:</u> Substance	Concentration (ppmv)	Apparent Reading*
NO	200	0
H ₂ S	100	0
NH ₃	300	0
CH ₄	25000	0
Hexane	100	0
Isobutylene	100	0
Toluene	100	0
Trichloroethylene	25	20 (v faint)

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

Other Possible Interferences: Most hydrocarbon interferences are eliminated in the pretreatment layer. Can be used to measure CO in pure hydrogen.