



RAE Systems, Inc.  
1339 Moffett Park Dr.  
Sunnyvale, CA 94089 USA

Telephone 408-752-0723  
Tube Orders 1-888-723-8823  
Web www.raesystems.com

# Gas Detection Tube Data Sheet

## Carbon Monoxide CO No. 10-102-18

### (Selective)

	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) in air	2 x 3	3	2
in pure hydrogen	2 x 1.5	1.5	1
Correction Factor	0.55	1	2

### OVER-RANGE LAYER TURNS PINK ON CO OVERLOAD

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

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

Humidity: No effect 5 - 100% RH.

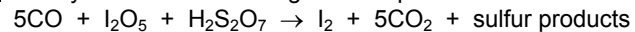
Temperature Range: 0 - 40°C  
(32 - 104°F)

Temp (°C/°F)	0/32	10/50	24/75	40/104
Corr. Factor	0.67	0.73	1.0	1.4

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

Color Change: White → Light Brown Ring (Over-range White → Pink)

Reaction Principle: Prelayer removes most organic compounds



Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
H <sub>2</sub>	100%	0
CH <sub>4</sub>	25000	0
H <sub>2</sub> S	50	0
NH <sub>3</sub>	100	0
NO	100	0
Hexane	100	3
Hexane	400	30
Isobutylene	100	0
Toluene	400	0

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

Other Possible Interferences: Suitable for measuring CO in pure hydrogen.

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