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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.

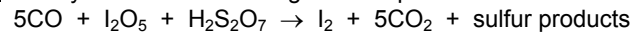
Temperature Range: 0 - 40°C
(32 - 104°F)

| 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 ₂ | 100% | 0 |
| CH ₄ | 25000 | 0 |
| H ₂ S | 50 | 0 |
| NH ₃ | 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.