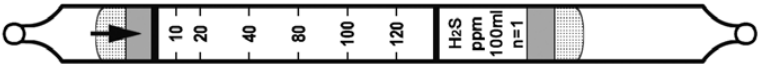
NAGCO
NORTH AMERICAN GAS CO.
SAFETY & INSTRUMENTATION GAS PRODUCTS

*TUBE DATASHEET*

## Hydrogen Sulfide $H_2S$ No. N10-103-12




| | Extended Range | Standard Range | Extended Range |
|---|---|---|---|
| Range (ppmv) | 0 - 75 | 0 - 150 | 0 - 300 |
| 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 | 0.5 | 1 | 2 |

Precision (Relative Standard Deviation)*: ≤±12%

Linearity with No. of Pump Strokes: r2 = 0.999

Humidity: No effect 5 - 85% RH

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

| Temp (°C/°F) | 0/32 | 10/50 | 24/75 | 40/104 |
|---|---|---|---|---|
| Corr. Factor | 0.88 | 0.96 | 1.0 | 1.1 |

Storage Life: 3 years in darkness at 5 – 25°C (40 – 77°F). Refrigeration preferred.

Color Change: White → Brown

Reaction Principle: $H_2S + Pb(OAc)_2 \rightarrow PbS + 2HOAc$

| Cross-sensitivity: Substance | Concentration (ppmv) | Apparent Reading* |
|---|---|---|
| CO | 250 | 0 |
| $CH_4$ | 25000 | 0 |
| $NH_3$ | 100 | 0 |
| $NO_2$ | 200 | 0‡ |
| $CS_2$ | 100 | 0 |
| Methyl mercaptan | 1000 | 0# |
| Diethyl sulfide | 100 | 0 |
| Isobutylene | 100 | 0 |
| Toluene | 100 | 0 |

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

‡ Interferes in mixtures; May result in transient light brown $H_2S$ response.

# No effect in mixtures. Concentrations in the high % range leave a yellow color over the entire tube.