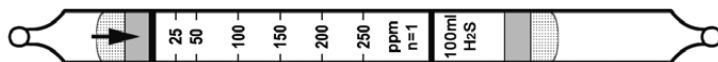


Hydrogen Sulfide H₂S

No. N10-103-18



	Extended Range	Standard Range	Extended Range
Range (ppmv)	12.5 - 125	25 - 250	50 - 500
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 1	1	1
Correction Factor	0.5	1	2

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

Linearity with No. of Pump Strokes: $r^2 = 0.999$

Humidity: No effect 5 - 85% RH

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

Temp (°C/°F) 0/32 10/50 23/73 40/104

Corr. Factor 0.9 0.9 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: $\text{H}_2\text{S} + \text{Pb}(\text{OAc})_2 \rightarrow \text{PbS} + 2\text{HOAc}$

<u>Cross-sensitivity:</u> 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	500	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 brown H₂S response.

Concentrations in the high % range leave a yellow color over the entire tube.