

Hydrogen Sulfide H₂S

No. N10-103-20



	Extended Range	Standard Range	Extended Range
Range (ppmv)	25 - 400	50 - 800	100 - 1600
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)*: $\leq \pm 10\%$

Linearity with No. of Pump Strokes: $r^2 = 0.989$

Humidity: 80% RH reduces the reading by about 10% compared to dry air

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

Temp (°C/°F) 0/32 10/50 25/77 40/104

Corr. Factor 1.0 1.0 1.0 1.2

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

Color Change: White → Dark Brown

Reaction Principle: $\text{H}_2\text{S} + \text{Pb}(\text{OAc})_2 \rightarrow \text{PbS} + 2\text{HOAc}$

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
CO	250	0
CH ₄	25000	0
NH ₃	300	0
NO ₂	200	0†
SO ₂	20	0
CS ₂	100	0
Methyl mercaptan	500	<50
Diethyl sulfide	1000	0
Hexane	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.