

Hydrogen Sulfide H₂S

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)*: $\leq \pm 12\%$

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 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: H₂S + Pb(OAc)₂ → PbS + 2HOAc

<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	1000	0#
Diethyl sulfide	100	0
Isobutylene	100	0
Toluene	100	0

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

‡ Interferes in mixtures; May result in transient light brown H₂S response.

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