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Gas Detection Tube Data Sheet

Hydrogen Sulfide H₂S No. 10-103-10

	Extended Range	Standard Range	Extended Range
Range (ppmv)	1.25 - 30	2.5 - 60	5 - 120
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 = 0.998

Humidity: No effect 5 - 85% RH

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

Temp (°C/°F)	0/32	10/50	25/77	40/104
Corr. Factor	0.95	0.95	1.0	1.2

Storage Life: 1 year in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: White → Light Brown

Reaction Principle: H₂S + Pb(OAc)₂ → PbS + 2HOAc

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
H ₂	100%	0 [^]
CO	250	0
CH ₄	25000	0
NH ₃	300	0
NO ₂	200	0 [‡]
SO ₂	20	0
SO ₂	1800	0 [†]
CS ₂	100	0
Methyl mercaptan	100	0 [#]
Diethyl sulfide	100	0
Hexane	100	0
Isobutylene	100	0 [^]
Toluene	100	0

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

[^] No effect in mixtures.

[‡] Interferes in mixtures; may result in transient light brown H₂S response.

[†] Interferes in mixtures; high SO₂ concentrations suppress H₂S response.

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

Caution: Dispose of spent or expired tubes according to local regulations.
Possibly hazardous materials are given under the section Reaction Principle.