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Gas Detection Tube Data Sheet

Hydrogen Sulfide H₂S No. 10-103-18

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

Color Change: White → Brown

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

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	500	0 [#]
Diethyl sulfide	100	0
Isobutylene	100	0
Toluene	100	0

*Data based on RAE 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.

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