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Gas Detection Tube Data Sheet

Hydrogen Sulfide H₂S No. 10-103-20

	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

<u>Temperature Range:</u> 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: 2 years in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: White → Dark Brown

Reaction Principle: $H_2S + Pb(OAc)_2 \rightarrow PbS + 2HOAc$

<u>Cross-sensitivity:</u> 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 RAE pumps and tubes used in standard range.

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

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