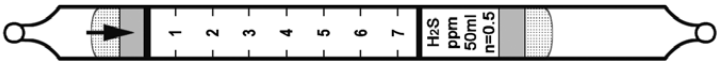
Hydrogen Sulfide H_2S No. N10-103-06



	Extended Range	Extended Range	Standard Range
Range (ppmv)	0.25 – 1.75	0.5 – 3.5	1 - 7
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	0.25	0.5	1

Precision (Relative Standard Deviation)*: ≤±12%
Humidity: Tubes must be used @ <5% RH. Reading drops sharply above 5% RH.
Temperature Range: No effect between 0 - 40°C (32 - 104°F).
Storage Life: 1 year in darkness at 5 – 25°C (40 - 77° F). Refrigeration preferred.
Color Change: Pale orange → Pink
Reaction Principle: $H_2S + HgCl_2$ → Mercury sulfide product + HCl
HCl + Base → Chloride Salt + H_2O (dye color change)

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
Methyl mercaptan	2	0.2
Butyl mercaptan	2	0.15
NH_3	100	0
NO_2	5	0
SO_2	100	0
SO_2	2000	0#
CS_2	100	0
CO	250	0
Hexane	100	0
Isobutylene	100	0^
Toluene	100	0

* Data based on YHAE pumps and tubes used in standard range.
# Forms orange color over entire tube but pink H_2S reading is unaffected in mixtures.
^ Reduces response when mixed with H_2S.

Other Possible Interferences: HCl and other acids and bases.