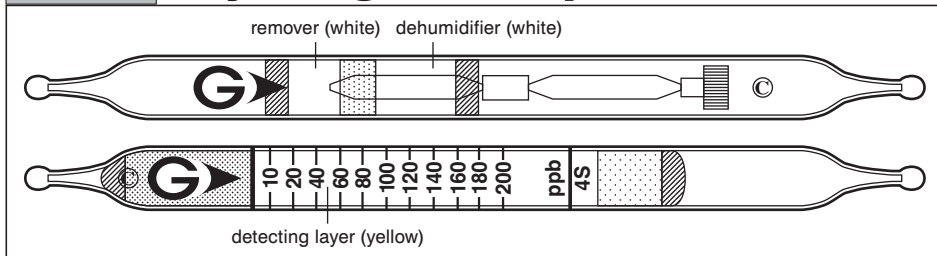


Odorant
detector tube

Hydrogen Sulphide H₂S No.4S



Performance

When used, these tubes are to be connected.

Measuring range	10 to 200 ppb
Sampling speed	150 ml/min
Sampling time	5 min

Colour change : Yellow → Purple

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 10 to 60 ppb), 5 % (for 60 to 200 ppb)

Shelf life : 1.5 years (in the refrigerator)

Reaction principle

Pretreatment tube : Dehumidifying and interference gas removing

Detector tube : $\text{H}_2\text{S} + \text{HgCl}_2 \rightarrow \text{HSHgCl} + \text{HCl}$

$\text{HCl} + \text{Base} \rightarrow \text{Chloride}$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Ammonia		} No	} No
Methyl mercaptan			
Nitrogen dioxide			
Sulphur dioxide			

Calibration gas generation

Permeation tube method