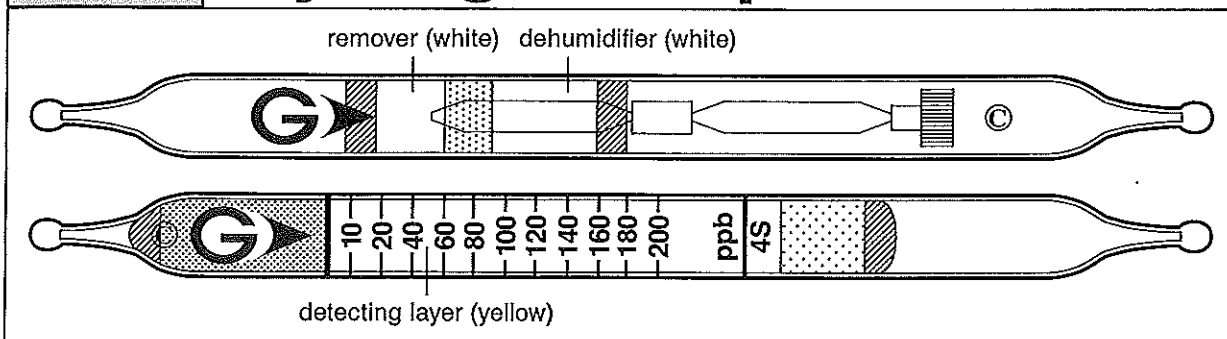


Odorant detector tube

Hydrogen Sulphide H₂S No.4S



Performance

When used, these tubes are to be connected. See page 2-3.

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 (NOTE : Page 2-5)

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

Ammonia, mercaptans, and sulphur dioxide are trapped in the pretreatment tube.

Calibration gas generation

Permeation tube method