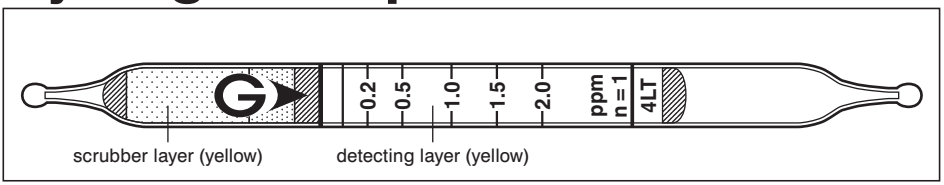
Hydrogen Sulphide H_2S No.4LT



Performance The minimum scale value (0.1ppm) is not printed on the tube, but only the scale line is printed.

Measuring range	0.05 to 0.1 ppm	(0.1) to 2.0 ppm	2.0 to 4.0 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	0.5	1	2
Sampling time	3 min	1.5 min	45 sec

Detecting limit : 0.01 ppm (2 pump strokes)
Colour change : Yellow → Pink
Corrections for temperature & humidity : Unnecessary
Relative standard deviation : 5% (for 0.1 to 2.0 ppm)
Shelf life : 2 years (in the refrigerator)

Reaction principle

Hydrogen sulphide reacts with the reagent to form intermediate material which stains indicator pink.

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Ammonia	≧ 2.3 ppm	−	No
Ethyl mercaptan	≧ 0.5 ppm	+	Pink (≧ 0.4 ppm)
Hydrogen chloride	≧ 4.5 ppm	+	Pink (≧ 4.0 ppm)
Hydrogen cyanide	≧ 0.05 ppm	+	Pink (≧ 0.05 ppm)
Nitric acid	≧ 6.0 ppm	+	Pink (≧ 5.0 ppm)
Sulphur dioxide	≧ 10 times	+ (Two layers)	Pale pink (≧ 2.0 ppm)
Nitrogen dioxide	≧ 5 times	−	Pink (≧ 6.5 ppm)
Hydrogen fluoride	≧ 12.0 ppm	+	Pink (≧ 11.0 ppm)

Calibration gas generation

Permeation tube method