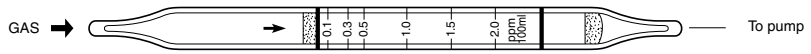
Tube No.
109U

CHLORINE



1. PERFORMANCE

1) Measuring range : 0.1-2 ppm 0.05-1 ppm
Number of pump strokes 1(100mℓ) 2(200mℓ)
2) Sampling time : 1 minute/1 pump stroke
3) Detectable limit : 0.01 ppm (200mℓ)
4) Shelf life : 2 years
5) Operating temperature : 0～40℃
6) Reading : Direct readingfrom the scale calibrated by 1 pump stroke
7) Colour change : White→Pale purple

2. RELATIVE STANDARD DEVIATION

RSD-low : 10% RSD-mid. : 5% RSD-high : 5%

3. CHEMICAL REACTION

By reacting with 3, 3'-Dimethylnaphthidine, Nitroso-compound is produced.
CI_2 + 3, 3'-Dimethylnaphthidine→Nitroso-compound

4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance		Interference	ppm	Coexistence
Hydrogen chloride	FIG.1	The accuracy of readings is not affected.	Chlorine conc.×20	Higher readings are given.
Nitrogen dioxide	FIG.2	Similar stain is produced.		〃

(NOTE)
In case of 2 pump strokes, following formula is available for the actual concentration.
Actual concentration = 1/2 × Reading value

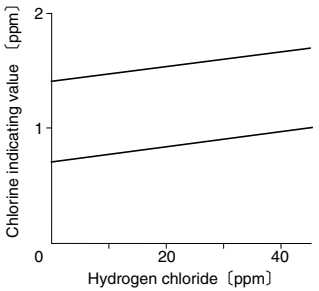


FIG.1 Influence of Hydrogen chloride

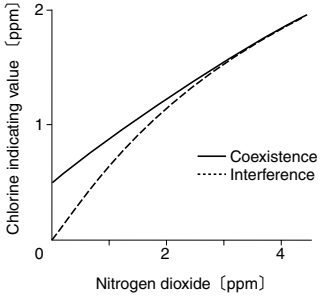


FIG.2 Influence of Nitrogen dioxide