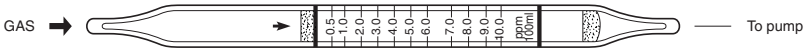
Tube No.
109SB

CHLORINE



1. PERFORMANCE

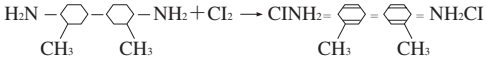
1) Measuring range	: 0.5-10 ppm	0.125-2.5 ppm	0.1-2.0 ppm
Number of pump strokes	1 (100mℓ)	4 (400mℓ)	5 (500mℓ)
2) Sampling time	: 1 minute/1 pump stroke		
3) Detectable limit	: 0.06 ppm (500mℓ)		
4) Shelf life	: 2 years		
5) Operating temperature	: 0 ~ 40℃		
6) Reading	: Direct reading from the scale calibrated by 1 pump stroke		
7) Colour change	: White → Pale orange		

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

o-Toluidine is oxidized and Orthoquinone is produced.



4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Bromine	Pale yellow stain is produced.	1	Higher readings are given.
Chlorine dioxide	〃	1	〃
Nitrogen dioxide	〃	Chlorine conc. × 1/5	〃
Nitrogen trichloride	〃	5	〃

(NOTE)

When the concentration is below 2 ppm, 4 or 5 pump strokes can be used to determine the lower concentration with the following formula ;

Actual concentration = Reading value $\times \frac{1}{\text{Number of pump strokes}}$