

1. PERFORMANCE

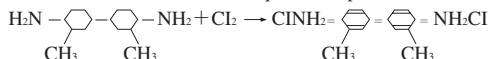
- 1) Measuring range : 0.5-10 ppm 0.125-2.5 ppm 0.1-2.0 ppm
 Number of pump strokes 1 (100mℓ) 4 (400mℓ) 5 (500mℓ)
- 2) Sampling time : 1 minute/1 pump stroke
- 3) Detectable limit : 0.06 ppm (500mℓ)
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Reading : Direct reading from the 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 ;

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