



## 1. PERFORMANCE

- |                          |                                 |
|--------------------------|---------------------------------|
| 1) Sampling method       | : Immersion method              |
| 2) Measuring range       | : 0.4-5.0 ppm                   |
| 3) Sampling time         | : 3 minutes                     |
| 4) Sample volume         | : over 5mL                      |
| 5) Detectable limit      | : 0.1 ppm                       |
| 6) Shelf life            | : 2 years                       |
| 7) Operating temperature | : 5~40°C                        |
| 8) Operating pH          | : 2-10                          |
| 9) Reading               | : Direct reading from the scale |
| 10) Colour change        | : Pale pink → Purple            |

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

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

## 4. CALIBRATION OF THE TUBE

IODOMETRY METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence
Chloride ion	—	The accuracy of readings is not affected.	200	Lower readings are given.
Calcium ion	—	∕	—	The accuracy of readings is not affected.
Copper ion	—	∕	—	∕
Iron ion	20	Similar stain is produced.	20	Higher readings are given.

(NOTE)

1. This tube is for measuring FREE-RESIDUAL CHLORINE, not for COMBINED-RESIDUAL CHLORINE.
2. This tube is not suitable for measuring sea water or sample solution which includes sea water. because it is affected by Chloride ion.

## 6. SAMPLING METHOD

(Immersion method)

- 1) Cut both ends of a fresh detector tube with an ampule cutter.
- 2) Immerse the end of the tube with side A into the sample solution by capillary action so that the sample solution is rose through the reagent. If Chloride ion exists in the solution, a discolouration will be occurred in the detecting reagent layer from its inlet and the discoloured layer will be given according to the concentration of Chloride ion.
- 3) When the concentration is over 5ppm, the HIGH CONC. INDICATOR is changed to White.

In this case, dilute the sample solution and multiply the readings obtained by the dilution !

