



## 1. PERFORMANCE

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|--------------------------|--|
| 1) Sampling method       | : Direct sampling method<br>(Refer to Page 17) |
| 2) Measuring range       | : 0.2-5 ppm                                    |
| 3) Sampling time         | : 2 to 4 minutes                               |
| 4) Sample volume         | : over 5 ml                                    |
| 5) Detectable limit      | : 0.05 ppm                                     |
| 6) Shelf life            | : 2 years                                      |
| 7) Operating temperature | : 0 ~ 40 °C                                    |
| 8) Operating PH          | : 6-13   |
| 9) Reading               | : Direct reading from the scale                |
| 10) Colour change        | : White → Blue                                 |

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

By reacting with *o*-Toluidine and Cupric sulphate (II), complex salt is produced.

## 4. CALIBRATION OF THE TUBE

POTASSIUM CYANIDE STANDARD SOLUTION METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Carbonate ion		1,700	Higher readings are given.
Chloride ion		100	∕
Sulphate ion		2,700	Lower readings are given.
Thiocyanate ion	Similar stain is produced.	200	Higher readings are given.
Sulphide ion			∕
Dichromate ion			Pretreat reagent is discoloured and the accuracy of readings is not affected.
Permanganate ion			∕
Ferricyanate ion			∕
Residual chloride ion			∕

## 6. SAMPLING METHOD

- 1) Make the sample solution at PH 6-13 before test.
- 2) Cut both ends of a fresh detector tube with a file.
- 3) Squeeze the rubber bulb (an extra option), insert the tube end (B) into it as it is and immerse filled end (A) of the tube.
- 4) Put the thumb off the rubber bulb, and the sample solution shall rise up.
- 5) When the sample solution rises up to (C) of the tube, remove the tube from the rubber bulb and from the sample solution.
- 6) The concentration can be obtained directly from the reading value of scale printed on the tube.
- 7) At concentration of over 5 ppm, dilute the sample solution and multiply the readings obtained by the dilution ratio.

