



## 1. PERFORMANCE

- 1) Measuring range : 20-800 ppm
- Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 3 minutes/1 pump stroke with orifice
- 3) Detectable limit : 5 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 7) Colour change : Pale blue → Reddish purple

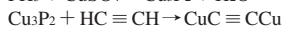
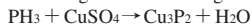
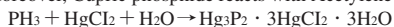
## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

By reacting with Mercuric chloride (II) and Cupric sulphate (II), Mercuric phosphorus chloride and Cupric phosphate are produced respectively.

Moreover, Cupric phosphide reacts with Acetylene and Copper acetylene is produced.



## 4. CALIBRATION OF THE TUBE

ABSORPTIOMETRIC METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

| Substance         | Interference                  | ppm | Coexistence                |
|-------------------|-------------------------------|-----|----------------------------|
| Hydrogen sulphide | Black stain is produced.      | 10  | Higher readings are given. |
| Arsine            | Dim yellow stain is produced. | 10  | ∕                          |

## 6.NOTE

- 1) In case that Acetylene does not exist, lower readings are given.
- 2) A flow control orifice (an extra option) is required to attach as shown in the following drawing.

