

1. PERFORMANCE

- 1) Measuring range : 2-20 ppm 1-10 ppm
 Number of pump strokes : 1 (100mℓ) 2 (200mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 0.5ppm (200mℓ)
- 4) Shelf life : 1 year (Necessary to store in refrigerated conditions ; 0 ~ 10 °C)
- 5) Operating temperature : 5 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Pale yellow → Purple

2. RELATIVE STANDARD DEVIATION

RSD-low : 15 % RSD-mid. : 15 % RSD-high : 10 %

3. CHEMICAL REACTION

PH indicator is discoloured.

4. CALIBRATION OF THE TUBE

ABSORPTIOMETRIC METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | ppm | Coexistence |
|----------------------------|----------------------------|-----|---|
| Hydrogen fluoride | Similar stain is produced. | 8 | The top of discoloured layer becomes unclear and higher readings are given. |
| Nitrogen dioxide FIG.1 | ∕ | 50 | ∕ |
| Hydrogen chloride FIG.2 | ∕ | | Higher readings are given. |

(NOTE)

In case of 2 pump strokes, following formula is available for the actual concentration.

Actual concentration = $1/2 \times$ Temperature corrected value

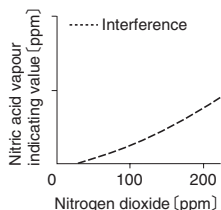


FIG.1 Influence of Nitrogen dioxide

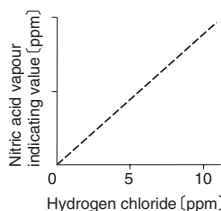


FIG.2 Influence of Hydrogen chloride

CORRECTION FOR AMBIENT CONDITIONS:

Temperature; Correct the tube reading by following temperature correction table.

| Temperature (°C) | | | | | | | | | | |
|------------------|------|------|------|------|------|------|------|------|------|------|
| Coefficient | | | | | | | | | | |
| Temperature (°C) | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Coefficient | 1.60 | 1.52 | 1.44 | 1.37 | 1.31 | 1.25 | 1.19 | 1.13 | 1.08 | 1.04 |
| Temperature (°C) | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| Coefficient | 1.00 | 0.96 | 0.92 | 0.89 | 0.86 | 0.83 | 0.80 | 0.77 | 0.74 | 0.71 |
| Temperature (°C) | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| Coefficient | 0.70 | 0.68 | 0.66 | 0.64 | 0.62 | 0.60 | 0.58 | 0.56 | 0.55 | 0.54 |
| Temperature (°C) | 40 | | | | | | | | | |
| Coefficient | 0.53 | | | | | | | | | |