

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 a refrigerated place ; 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

COLOURIMETRY 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 × Temperature corrected value

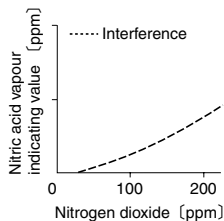


FIG.1 Influence of Nitrogen dioxide

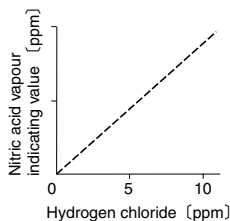


FIG.2 Influence of Hydrogen chloride

TEMPERATURE CORRECTION TABLE

Scale Readings (ppm)	True Concentration (ppm)					
	0 °C (41 °F)	10 °C (50 °F)	15 °C (59 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
20	—	35	25	20	15	13
15	43	25	19	15	12	10
10	27	17	12	10	8	7
5	14	9	6	5	4	4
2	6	4	3	2	2	2