

## 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

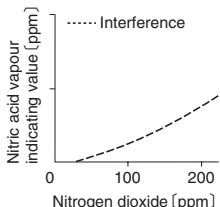


FIG.1 Influence of Nitrogen dioxide

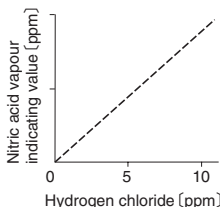


FIG.2 Influence of Hydrogen chloride

### CORRECTION FOR AMBIENT CONDITIONS:

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

Temperature (°C)										
Coefficient	2.35 2.17 2.00 1.85 1.72									
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									