

## 1. PERFORMANCE

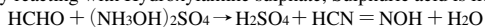
- 1) Measuring range : 0.10-2.0 ppm (125 -2,500  $\mu\text{g}/\text{m}^3$ )    0.05-1.0 ppm (62 - 1,250  $\mu\text{g}/\text{m}^3$ )
- 2) Sampling volume : 4.5L (300mL/min  $\times$  15min)    9L (300mL/min  $\times$  30min)
- 3) Sampling time : 15 minutes    30 minutes
- 4) Detectable limit : 0.005 ppm (300mL/min  $\times$  30min)
- 5) Shelf life : 1 year (Necessary to store in refrigerated conditions ; 0 ~ 10°C)
- 6) Operating temperature : 10 ~ 35°C
- 7) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION COEFFICIENT TABLE")
- 8) Operating humidity : 10 ~ 90% R.H.
- 9) Reading : Direct reading from the scale calibrated at the sampling of 300mL/min  $\times$  30min
- 10) Colour change : Yellowish orange  $\rightarrow$  Pink

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

By reacting with Hydroxylamine sulphate, Sulphuric acid is liberated.



## 4. CALIBRATION OF THE TUBE

DNPH-HPLC METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence
Ammonia	—	The accuracy of readings is not affected.	0.5	Discolouration layer fades from the inlet side of the stain.
Amines	—	∕	0.5	∕
Nitrogen dioxide	0.5	Similar stain is produced.	0.5	Higher readings with indiscernable maximum end point of the stain are given.
Acetaldehyde	—	∕	—	Higher readings are given.
Acetone	—	∕	—	∕

(NOTE)

- 1) Air sampler is required for this tube.
- 2) In case of 4.5L sampling, following formula is available for the actual concentration.  
Actual concentration = 2  $\times$  Temperature corrected value

TABLE OF THE COEFFICIENT FOR TEMPERATURE CORRECTION (20°C standard)

Temp(C)	0	1	2	3	4	5	6	7	8	9
10	1.16	1.14	1.13	1.11	1.10	1.08	1.06	1.05	1.03	1.02
20	1.00	0.98	0.97	0.95	0.94	0.92	0.90	0.89	0.87	0.86
30	0.84	0.82	0.81	0.79	0.78	0.76	—	—	—	—

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