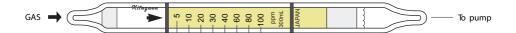
ETHYLENE OXIDE



1. PERFORMANCE

1) Measuring range : 5-100ppm Number of pump strokes 3(300mL)

2) Sampling time : 4.5 minutes/3 pump strokes

3) Detectable limit : 3 ppm 4) Shelf life : 3 years 5) Operating temperature : 10∼40°C

6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated by 3 pump strokes

8) Colour change : Yellow → Pale blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromic oxide is reduced.

 $C_2H_4O + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence	
Alcohols	Similar stain is produced.	Higher readings are given.	
Ethers	п	п	
Esters	п	п	
Ketones	п	п	
Aliphatic hydrocarbons (over C ₃)	п	п	
Aromatic hydrocarbons	п	п	
Halogen hydrocarbons	п	п	

TEMPERATURE CORRECTION TABLE

Tube	True Concentration (ppm)							
Readings (ppm)	10 °C (50°F)	15 °C (59° F)	20 °C (68° F)	25 ℃ (77°F)	30 °C (86°F)	35°C (95°F)	40 °C (104°F)	
100	70	79	100	122	-	-	-	
80	57	64	80	97	120	-	-	
60	44	48	60	73	92	115	140	
40	31	33	40	46	60	78	92	
30	25	26	30	33	40	50	60	
20	17	18	20	22	26	28	30	
10	9	10	10	10	10	11	11	
5	5	5	5	5	5	5	5	