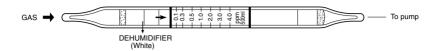
FORMALDEHYDE



1. PERFORMANCE

1) Measuring range Number of pump strokes Sampling time S (5.01-4.0 ppm -0.05-2.0 ppm -0.05-

3) Detectable limit : $0.03 \text{ ppm} (1000\text{m}\ell)$

4) Shelf life : 1 year (Necessary to store in a refrigerated place; $0 \sim 10 \, ^{\circ}\text{C}$)

5) Operating temperature : $10 \sim 40 \,^{\circ}\text{C}$

6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated by 5 pump strokes

8) Colour change : Yellow→Pink

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reaction with Hydroxylamine phosphate acid is liberated and PH indicator is discoloured. HCHO + (NH₃OH)₃ · H₃PO₄ → H₃PO₄ + HCH = NOH + H₂O

4. CALIBRATION OF THE TUBE

COLOURIMETRY METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence	
Ammonia		The accuracy of readings is not affected.	10	Lower readings are given. Inlet side is faded the discoloured layer.	
Nitrogen dioxide	3	Similar stain is produced.	3	Higher readings are given. The top of discoloured layer becomes unclear.	
Acetaldehyde		"		Higher readings are given.	
Toluene		The accuracy of readings is not affected.			

TEMPERATURE CORRECTION TABLE

Tube	Corrected Concentration (ppm)					
Readings (ppm)	10℃ (50°F)	20°C (68° F)	30 °C (86* F)	40 ℃ (104* F)		
4.0	6.4	4.0	2.4	1.6		
3.5	5.6	3.5	2.1	1.4		
3.0	4.8	3.0	1.8	1.2		
2.5	4.0	2.5	1.5	1.0		
2.0	3.2	2.0	1.2	0.8		
1.5	2.4	1.5	0.9	0.6		
1.0	1.6	1.0	0.6	0.4		
0.5	0.8	0.5	0.3	0.2		
0.3	0.5	0.3	0.18	0.12		
0.1	0.16	0.1	0.06	0.04		

(NOTE)

In case of 10 pump strokes, following formula is available for the actual concentration. Actual concentration = $1/2 \times \text{Tmperature}$ corrected value