

1. PERFORMANCE

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|--------------------------|---|-----------|
| 1) Measuring range | : 2-30 ppm | 1-15 ppm |
| Number of pump strokes | 1 (100mℓ) | 2 (200mℓ) |
| 2) Sampling time | : 0.5 minutes/1 pump stroke | |
| 3) Detectable limit | : 0.05 ppm (200mℓ) | |
| 4) Shelf life | : 3 years | |
| 5) Operating temperature | : 0 ~ 40 °C | |
| 6) Reading | : Direct reading from the scale calibrated by 1 pump stroke | |
| 7) Colour change | : White → Yellow | |

2. RELATIVE STANDARD DEVIATION

RSD-low : 15% RSD-mid. : 10% RSD-high : 10%

3. CHEMICAL REACTION

By reacting with *p*-Dimethylamino-benzaldehyde, Azomethine is produced.



4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Toluidine	Similar stain is produced.	Aniline conc.×1/3	Higher readings are given.
Ammonia	FIG.1 The accuracy of readings is not affected.	The same conc. of Aniline	∕
Paraffin amines	∕		∕
Aromatic amines	∕		∕

(NOTE)

In case of 2 pump strokes, following formula is available for the actual concentration.

Actual concentration = 1/2 × Reading value.

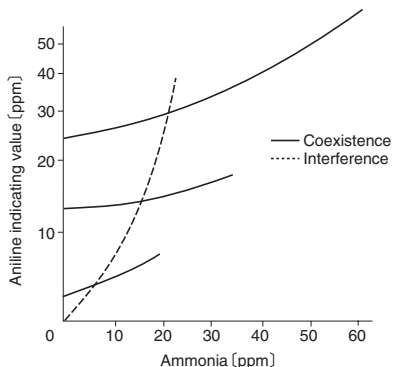


FIG.1 Influence of Ammonia