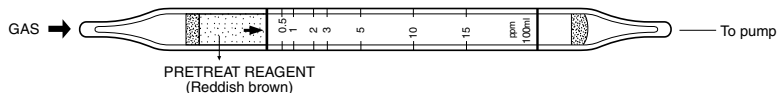


Tube No.
175U

NITROGEN OXIDES



1. PERFORMANCE

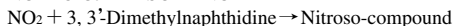
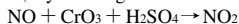
- | | | |
|--------------------------|--|------------|
| 1) Measuring range | : 1.0-30 ppm | 0.5-15 ppm |
| Number of pump strokes | 1/2 (50mℓ) | 1 (100mℓ) |
| 2) Sampling time | : 1 minute/1 pump stroke | |
| 3) Detectable limit | : 0.2 ppm (100mℓ) | |
| 4) Shelf life | : 3 years (Necessary to store in a refrigerated place ; 0 ~ 10 °C) | |
| 5) Operating temperature | : 0 ~ 40 °C | |
| 6) Reading | : Direct reading from the scale calibrated by 1 pump stroke | |
| 7) Colour change | : White → Pale purple | |

2. RELATIVE STANDARD DEVIATION

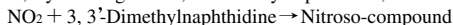
RSD-low : 10 % RSD-mid. : 5 % RSD-high : 5 %

3. CHEMICAL REACTION

NO ; By reacting with an Oxidizer, NO₂ is produced.



NO₂ ; By reacting with 3, 3²-Dimethylnaphthidine, Nitroso-compound is produced.



4. CALIBRATION OF THE TUBE

NO ; STANDARD GAS CYLINDER METHOD

NO₂ ; PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Chlorine	Similar stain is produced.		The accuracy of reading is not affected.
Hydrogen chloride	∕		∕
Sulphur dioxide	The accuracy of reading is not affected.	500	Lower readings are given.
Hydrogen sulphide	∕	5	∕
Ozone	∕		
Hexane	∕		
Laughing gas	∕		

(NOTE)

In case of 1/2 pump strokes, following formula is available for the actual concentration.

Actual concentration = 2 × Reading value