

Tube No.
117SD

NITROGEN DIOXIDE



1. PERFORMANCE

- 1) Measuring range : 0.1–1.0ppm
Number of pump strokes : 3(300mL)
- 2) Sampling time : 135 seconds (45 seconds/1 pump stroke)
- 3) Detectable limit : 0.01ppm(300mL)
- 4) Shelf life : 1.5 years
- 5) Operating temperature : 0~40°C
- 6) Reading : Direct reading from the scale calibrated by 3 pump strokes
- 7) Colour change : White → Pale purple

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

$\text{NO}_2 + 3, 3'\text{-Dimethylnaphthidine} \rightarrow \text{Nitroso-compounds}$

4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence
Chlorine	3	Similar stain is produced.	3	Higher readings are given.
Ozone			2	“
Sulphur dioxide			7	Lower readings are given.
Formaldehyde				The accuracy of readings is not affected.
Formic acid				“
Carbon monoxide				“
Carbon dioxide				“
Ethyl alcohol				“