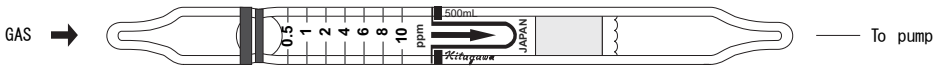
Tube No.
247S

HYDROGEN PEROXIDE



1. PERFORMANCE

1) Measuring range : 0.5-10.0ppm
   Number of pump strokes 5(500mL)
2) Sampling time : 7.5 minutes/5 pump strokes
3) Detectable limit : 0.2 ppm
4) Shelf life : 1 year (Necessary to store in a refrigerated place;0～10℃)
5) Operating temperature : 0～40℃
6) Temperature compensation : Necessary(See "NOTE")
7) Reading : Direct reading from the scale calibrated by 5 pump strokes
8) Colour change : White → Yellow

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with Titanium sulphate, yellow complex is generated.

$H_2O_2 + Ti(SO_4)_2 \rightarrow H_2[TiO_2(SO_4)_2]$

4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Chlorine	The accuracy of reading is not affected.		The accuracy of reading is not affected.
Ozone	〃		〃
Nitrogen dioxide	〃		〃
Acetaldehyde	〃		〃
Formaldehyde	〃	10	Lower readings are given.

(NOTE)

The scale is calibratd based on the temperature of 20℃ (68℉). Readings obtained in under 15℃ (59°) should be corrected with the following temperature correction table.

TEMPERATURE CORRECTION COEFFICIENT TABLE (AT 20℃)

Temperature (℃)	0	1	2	3	4	5	6	7	8	9
Correction Factor	1.35	1.32	1.28	1.25	1.23	1.20	1.17	1.15	1.13	1.11
Temperature (℃)	10	11	12	13	14	15				
Correction Factor	1.09	1.07	1.06	1.05	1.03	1.02				

Actual concentration = Reading value × Coefficient for temperature correction