Tube No.
247S

HYDROGEN PEROXIDE

1. PERFORMANCE

1) Measuring range : 0.5-10 ppm
   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 refrigerated conditions ; 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.

$H_2O_2 + Ti(SO_4)_2 \rightarrow$ Yellow compound

4. CALIBRATION OF THE TUBE

ABSORPTIOMETRIC 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 calibrat based on the temperature of 20℃ (68°F). Readings obtained in other temperature circumstances should be corrected with the following temperature correction coefficient 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.