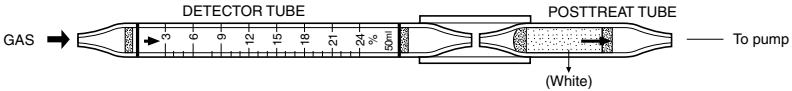
Tube No.
159SC

OXYGEN



1. PERFORMANCE

1) Measuring range	:	3-24 %	1.5-3 %
Number of pump strokes		1/2(50mℓ)	1(100mℓ)
2) Sampling time	:	1 minute/1/2 pump stroke	
		1.5 minutes/1 pump stroke	
3) Shelf life	:	2 years	
4) Operating temperature	:	0 ~ 45 ℃	
5) Reading	:	Direct reading from the scale calibrated by 1/2 pump stroke	
6) Colour change	:	Black → White	

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTI0N

Titanium trichloride is oxidized and Titanium oxide is produced.

$O_2 + TiCl_3 \rightarrow TiO_2$

4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Sulphur dioxide		The accuracy of readings is not affected.
Carbon dioxide		〃
Nitrogen dioxide		〃
Hydrogen sulphide		〃

(NOTE)

When the concentration is below 3%, 1 pump stroke can be used to determine the lower concentration.
Following formula is available for the actual concentration.
Actual concentration = 1/2 × Reading value