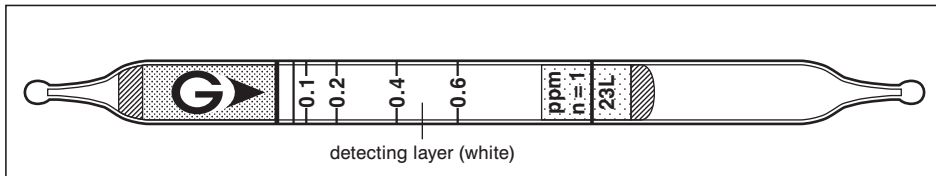


Chlorine Dioxide ClO_2

No.23L



Performance The minimum scale value (0.05ppm) is not printed on the tube, but only the scale line is printed.

Measuring range	0.025 to 0.05 ppm	(0.05) to 0.6 ppm	0.6 to 1.2 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	1/2	1	2
Sampling time	4 min	2 min	1 min

Detecting limit : 0.005 ppm (2 pump strokes)

Colour change : White → Pale green

Corrections for temperature & humidity : Unnecessary

Relative standard deviation : 10% (for 0.05 to 0.2 ppm), 5% (for 0.2 to 0.6 ppm)

Shelf life : 1 year (in the refrigerator)

Reaction principle

$\text{ABTS} + \text{ClO}_2 \rightarrow \text{Reaction product}$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Ammonia		No	No
Carbon monoxide		No	No
Carbon dioxide		No	No
Hydrogen chloride		No	No
Sulphur dioxide		No	No
Nitrogen dioxide		+	Pale green
Halogen gases		+	Pale green
Hydrogen sulphide		No	No
Organic vapours		No	No

Calibration gas generation

Permeation tube method