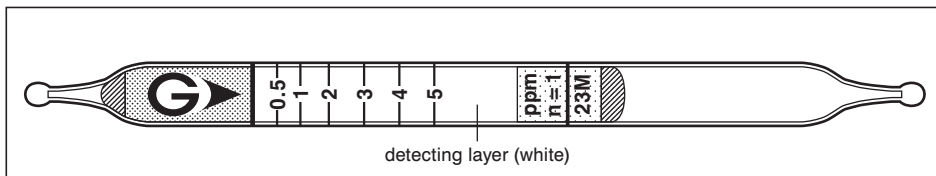


Chlorine Dioxide ClO_2

No.23M



Performance

Measuring range	0.1 to 0.5ppm	0.5 to 5 ppm	5 to 10 ppm
Number of pump strokes	2 to 5 (200 to 500ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	1/2 to 1/5	1	2
Sampling time	2 to 5 min	1 min	30 sec

Detecting limit : 0.05 ppm (5 pump strokes)

Colour change : White → Pale pink

Corrections for temperature & humidity : Unnecessary

Relative standard deviation : 10% (for 0.5 to 2 ppm), 5% (for 2 to 5 ppm)

Shelf life : 3 years

Reaction principle

$\text{ClO}_2 + 3,3',5,5'$ -Tetramethylbendizine → Pale pink product

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Nitric oxide		+	Pale pink
Ozone		+	Pale pink
Nitrogen dioxide		+	Pale pink
Chlorine		+	Pale pink
Bromine, Iodine		+	Pale pink

Calibration gas generation

Permeation tube method