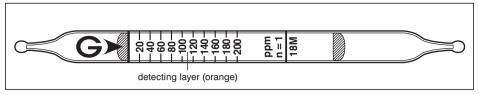
Ozone O3



Performance

Measuring range	4 to 20 ppm	20 to 200 ppm	200 to 400 ppm
Number of pump strokes	2 to 5 (200 to 500 ml)	1(100 ml)	1/2(50 ml)
Correction factor	1/2 to 1/5	1	2
Sampling time	1.5 to 3.75 min	45 sec	30 sec

 $\begin{array}{lll} \mbox{Detecting limit:} & \mbox{1 ppm (5 pump strokes)} \\ \mbox{Colour change:} & \mbox{Orange} \rightarrow \mbox{Pale Yellow} \end{array}$

Corrections for temperature & humidity: Unnecessary

Relative standard deviation: 10 % (for 20 to 60 ppm), 5 % (for 60 to 200 ppm)

Shelf life: 3 years

Reaction principle

O₃ + Indicator → Reaction Products

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Chlorine Nitrogen dioxide		+ +	Pale yellow
Boron trichloride Arsine			
Hydrogen chloride Hydrogen fluoride Phosphine		} No	Red

Calibration gas generation

Ozone generator