



detecting layer (yellow)

Performance

Measuring range :	1 to 100 ppm
Sampling time :	1 to 10 hours
Colour change :	Yellow → Purple
Corrections for temperature & humidity :	Temperature & humidity corrections are necessary.
Relative standard deviation :	15 % (for 10 to 20 ppm·hr), 10 % (for 20 to 100 ppm·hr)
Shelf life :	3 years

Reaction principle

HF + Indicator → Purple product

Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes colour by itself to
Chlorine	$\geq 1/5$	+	} Purple
Nitric acid	$\geq 1/5$	+	
Hydrogen chloride	$\geq 1/5$	+	

Other substances measurable with this Dosi-tube

Substance	Correction	Sampling time	Measuring range
Hydrogen chloride	Factor : 0.4	} 1 to 10 hours	0.4 to 40 ppm
Nitric acid	Factor : 0.32		0.32 to 32 ppm

Calibration gas generation

Permeation tube method