



Performance

Measuring Range	0.5 to 30 ppm	30 to 125 ppm
Number of Pump Strokes	2	1
Correction Factor	1	By Scale
Sampling Time	1 minute per pump stroke	
Detecting Limit	0.1 ppm (n=2)	
Colour Change	White → Yellowish Orange	
Reaction Principle	Nitrogen dioxide reduces o-tolidine to form nitroso-o-tolidine of yellowish orange colour.	
Coefficient of Variation	10% (for 0.5 to 3 ppm), 5% (for 3 to 30 ppm)	
Shelf Life	3 Years	
Corrections for temperature & humidity	Unnecessary	

Store the tubes at cool and dark place.

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Ammonia	-	No effect	No discoloration
Carbon monoxide	-	No effect	No discoloration
Carbon dioxide	-	No effect	No discoloration
Nitric oxide	≥50 ppm	Faint demarcation	Pale red colour
Bromine, Chlorine	≥1/5 times	Plus error	Yellowish orange colour
Sulphur dioxide	≥10 ppm	Bleach the discoloration	No discoloration
Organic vapours	-	No effect	No discoloration

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Iodine	0.4	2	0.2 to 12 ppm

Calibration gas generation Permeation tube method

TLV-TWA	TLV-STEL	Explosive range
3ppm	5ppm	-