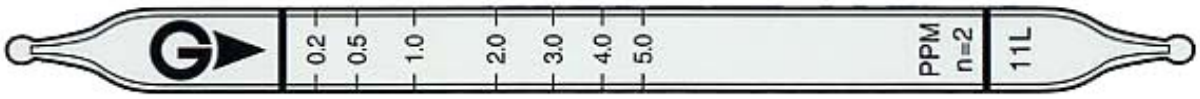
Nitrogen oxides $NO+NO_2$ NO.11L



Performance

Measuring Range	0.04 to 0.08 ppm	0.08 to 0.2 ppm	0.2 to 5.0 ppm	5.0 to 16.5 ppm
Number of Pump Strokes	8	4	2	1
Correction Factor	0.2	0.4	1	3.3
Sampling Time	2 minutes per pump stroke			
Detecting Limit	0.01ppm (n=8)			
Colour Change	White → Yellowish orange			
Reaction Principle	Nitrogen oxides is oxidised by nitrogen dioxide, then react with diphenylamineto produce p-nitroso-diphenylamine which colour is yellowish orange.			
Coefficient of Variation	10% (for 0.2 to 1 ppm), 5% (for 1 to 5 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
Chlorine, Bromine, Chlorine dioxide	-	Plus error	Produce similar stain
Sulphur dioxide	≧25 ppm	Minus error	No discoloration
Hydrogen sulphide	≧25 ppm	Minus error	No discoloration

Calibration gas generation NO_2:Permeation tube method
NO: High pressure gas cylinder method

TLV-TWA	TLV-STEL	Explosive range
NO_2:3ppm NO:25ppm	NO_2:5ppm	-