



### Performance

<b>Name of Gas</b>	Nitrogen Dioxide (NO <sub>2</sub> )	Nitric oxide (NO)	
<b>Measuring Range</b>	2.5 to 200 ppm	2.5 to 5 ppm	5 to 200 ppm
<b>Pump Strokes</b>	1	2	1
<b>Correction Factor</b>	1	1/2	1
<b>Sampling Time</b>	1 minute per pump stroke		
<b>Detecting Limit</b>	0.5 ppm (n=1)	1 ppm (n=2)	
<b>Colour Change</b>	White → Yellowish orange		
<b>Reaction Formula</b>	NO <sub>2</sub> tube: Nitrogen dioxide reacts with o-tolidine to produce yellowish orange stain.  NO tube: Nitric oxide reacts with acid to produce acid gas and acid gas react with o-tolidine to produce yellowish orange stain.		
<b>Coefficient of Variation</b>	NO <sub>2</sub> tube: 10% (for 2.5 to 20 ppm), 5% (for 20 to 200 ppm) NO tube: 10% (for 5 to 20 ppm), 5% (for 20 to 200 ppm)		
<b>Shelf Life</b>	3 Years		
<b>Corrections for temperature &amp; humidity</b>	NO <sub>2</sub> tube: Unnecessary NO tube: Temperature correction is necessary		
<b>Store the tubes at cool and dark place.</b>			

### Possible coexisting substances and their interferences

For the NO<sub>2</sub> tube (the NO tube will NOT be influenced by these substances.)

Substance	Concentration	Interference	Change colour by itself
Nitric Oxide	-	No effect	Produce red belt at demarcation
Hydrogen chloride	-	Unclear demarcation	No discoloration
Ozone, Halogens, Chlorine dioxide	≥1/5	20% Plus error	Produce yellowish orange stain
Sulphur dioxide	≥50 ppm	Unclear demarcation	No discoloration

**Calibration gas generation** NO tube: Permeation tube method NO<sub>2</sub> tube: Permeation tube method

TLV-TWA	TLV-STEL	Explosive range
NO <sub>2</sub> :3ppm NO:25ppm	NO <sub>2</sub> :5ppm	-

### Special Note

When used, connect the NO<sub>2</sub> and the NO tube (with both ends broken off). This twin tube can measure NO and NO<sub>2</sub> concentrations simultaneously.