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Gas Detection Tube Data Sheet Nitrogen Dioxide NO₂ 10-117-10

	Extended Range	Standard Range	Extended Range
Range (ppmv)		0.5-30	
No. of Pump Strokes		1	
Sample Volume (mL)	Do Not Extend	100	Do Not Extend
Sample Time (min)		1.5	
Correction Factor		1	

Precision (Relative Standard Deviation)*: $\leq \pm 20\%$

Linearity with No. of Pump Strokes: Non-linear, do not extend

Humidity: No effect between 0-90%RH.

Temperature Range: No effect between 0 - 40°C(32 - 104°F)

Storage Life: 1 year in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

<u>Color Change</u>: White → Yellow

Reaction Principle: NO₂ + o-Tolidine → Nitrated yellow product

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
СО	3000	0
CO ₂	200000	0
SO ₂	200	0
CH ₄	25000	0
H ₂ S	100	0
Acetone	10000	0
Benzene	5	0
n-Hexane	100	0
Isobutylene	100	0
Toluene	100	0
CI2	50	Entire tube [^]
NO	500	1#

^{*}Data based on RAE pumps and tubes used in standard range.

Other Possible Interferences: Reducing gases.

<u>Caution</u>: Dispose of spent or expired tubes according to local regulations. Possibly hazardous materials are given under the section Reaction Principle.

[^]Cl₂ results in light yellow stain.

^{*}NO results in orange stain.