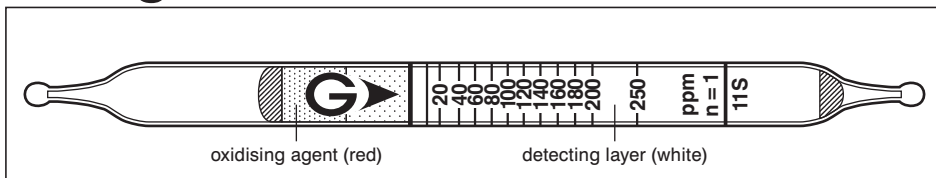


# Nitrogen Oxides

NO + NO<sub>2</sub>

(total quantification)

No.11S



## Performance

The minimum scale value (10ppm) is not printed on the tube, but only the scale line is printed.

Measuring range	5 to 10 ppm	(10) to 250 ppm	250 to 625 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	1/2	1	2.5
Sampling time	1.5 min	45 sec	30 sec

Detecting limit : 2 ppm (2 pump strokes)

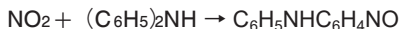
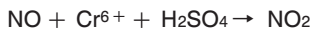
Colour change : White → Pale green

Corrections for temperature & humidity : Unnecessary

Relative standard deviation : 10 % (for 10 to 80 ppm), 5 % (for 80 to 250 ppm)

Shelf life : 2 years

## Reaction principle



## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen chloride	≧ 50 ppm	Unclear demarcation	Bluish purple (≧ 10 ppm)
Hydrogen sulphide	≧ 1/1	+	No
Ozone	≧ 80 ppm	Unclear demarcation (Two layers)	Pale brown
Sulphur dioxide	≧ 1/1	+	No
Methanol	≧ 400 ppm	-	No

Nitric oxide is oxidized to form nitrogen dioxide. If organic solvent of high concentration is coexisting, oxidising agent is deteriorated to produce minus error for Nitric oxide concentration.

## Calibration gas generation

Permeation tube method