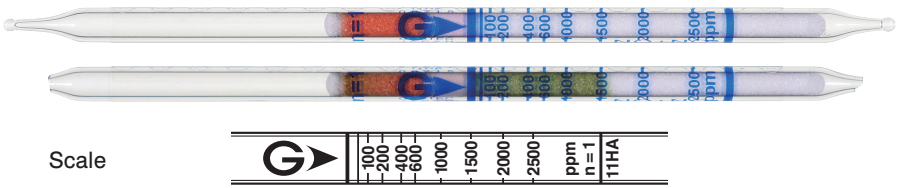
Nitrogen Oxides $NO + NO_2$ (total quantification) No.11HA



Performance The minimum scale value (50ppm) is not printed on the tube, but only the scale line is printed.

Measuring range	(50) to 2500 ppm
Number of pump strokes	1 (100 mL)
Correction factor	1
Sampling time	1.5 min

Detecting limit : 10 ppm (1 pump stroke)
Colour change : White → Green
Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction not used
Relative humidity 20 to 90 % correction not used
Relative standard deviation : 10 %(for 50 to 600 ppm), 5 %(for 600 to 2500 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 24 months

Reaction principle

$NO + Cr^{6+} + H_2SO_4 \rightarrow NO_2$
$NO_2 + (C_6H_5)_2NH \rightarrow C_6H_5NHC_6H_4NO$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen chloride	≧ 500 ppm	Unclear demarcation	Bluish purple at 100 ppm
Ozone	≧ 200 ppm	Unclear demarcation (Two layers)	Brown
Sulphur dioxide		No	No
Hydrogen sulphide		No	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

High pressure gas cylinder method