

Information Data Sheet

Detector Tube **NO₂-2.5 & NO-2.5**

Part No. (US):

Part No. **D7086863**

1. Application

Detection of NO₂ & NO (separate quantification) in air or in technical gases.

2. Detector Tube Sampling Pump

KWIK DRAW(formerly MSA AUER) Gas-Tester® I/H, Gas-Tester® I / ThumbPump™-Sampler, Toximeter® II, Or Uniphos Kwik-Draw™-Pump. Observe respective instructions for use.

3. Measuring Range

Nitrogen Dioxide (NO₂) 2.5 – 200 ppm, at 1 stroke (n=1)
Nitrogen Oxide (NO) 2.5 – 200 ppm, at 1 stroke (n=1)

4. Chemical Reaction and Color Change

Nitrogen dioxide reacts with o-toluidine to produce yellowish orange stain.
Nitric oxide is oxidised with CrO₃ to produce Nitrogen dioxide and this NO₂ reacts with o-toluidine to produce yellowish orange stain.



5. Ambient Conditions During Sampling

Relative Humidity: Detector tube can be used between 10% RH (0.5 g/m³ at 0°C [32°F]) and 90% RH (45.6 g/m³ at 40°C [104°F]).

Temperature:

- a) For NO₂ Detector tube:
Detector tube can be used between 0°C and 40°C (32°F and 104°F).
- b) For NO Detector tube: For temperature correction see table below.

| Temperature °C (°F) | 0 (32) | 10(50) | 20(68) | 30(86) | 40(104) |
|---------------------|--------|--------|--------|--------|---------|
| Correction factor | 1.15 | 1.08 | 1 | 0.95 | 0.9 |

6. Interferences and Cross Sensitivities

- a) For NO₂ Detector tube : No interference from:
Nitrogen monoxide, Sulphur dioxide, and HCl
- b) For NO Detector tube: No interference from:
Nitrogen dioxide up to 200 ppm, Sulphur dioxide up to 10 ppm, and Ozone up to 50 ppm.

Manufactured By:

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