

# Information Data Sheet

**Detector Tube**      **NO<sub>2</sub>-2.5 & NO-2.5**

**Part No. (US):**

**Part No.**              **D7086863**

**1. Application**

Detection of NO<sub>2</sub> & 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 (NO<sub>2</sub>) 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 CrO<sub>3</sub> to produce Nitrogen dioxide and this NO<sub>2</sub> 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/m<sup>3</sup> at 0°C [32°F]) and 90% RH (45.6 g/m<sup>3</sup> at 40°C [104°F]).

**Temperature:**

- a) For NO<sub>2</sub> 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 NO<sub>2</sub> 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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