

Information Data Sheet

Action Detector Tube NO₂-0.5

Part No. (US): 487341

Part No. D5085805

1. Application

Detection of nitrogen dioxide (NO₂) in air or in technical gases.

2. Detector Tube Sampling Pump

KWIK DRAW(formerly MSA AUER) Gas-Tester® IIH, Gas-Tester® I / ThumbPump™-Sampler, Toximeter® II, Uniphos Kwik-Draw™-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

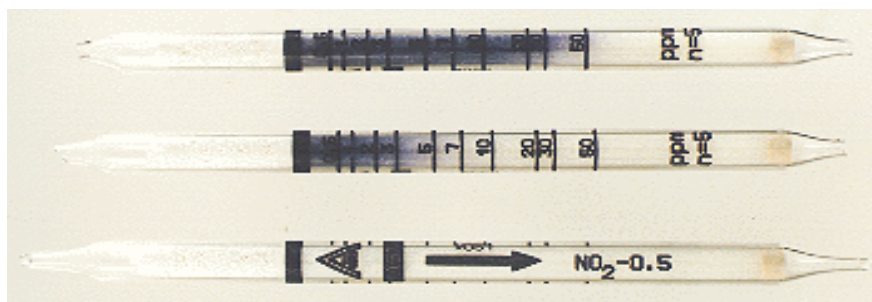
3. Measuring Range

0.5..... 50 ppm nitrogen dioxide at n=5 (5 strokes).

4. Chemical Reaction and Color Change

Oxidation of an aromatic amine by nitrogen dioxide.

Color change: white or light blue → dark blue



5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the reading between 5 °C and 35 °C (40 °F and 95 °F) and between 10% rh [0.7 g/m³ at 5 °C (40 °F)] and 90% rh [36 g/m³ at 35 °C (95 °F)].

6. Interferences and Cross Sensitivities

- a) No interference from:
 - hydrogen, methane, ethane, propane, carbon monoxide, carbon dioxide, nitrous oxide.
 - higher saturated hydrocarbons (e.g. butanes, octanes), aromatic hydrocarbons (e.g. benzene), sulfur dioxide up to 1000 ppm.
 - carbon disulphide, nitric oxide, phosphine up to 5000 ppm.
 - hydrogen chloride, hydrogen cyanide, phosgene up to 100 ppm.
- b) olefinic hydrocarbons (e.g. ethylene), acetylene sulfide, ammonia are not indicated, but possibly will shorten the indication stain of nitrogen dioxide..
- c) halogens (chlorine, bromine), chlorine dioxide, ozone will be indicated. The sensitivity varies.

Manufactured By:

Uniphos Envirotronic Pvt. Ltd (100% EOU)

P.O. Nahuli - 396 108

Tal. Umbergaon,

Dist: Valsad, Gujarat, India

Tel. : +91(260) 2730156 / 57 / 58

Fax : +91(260) 2730160

gasdetection@uniphos-envirotronic.com

Marketing Office:

Uniphos Envirotronic Pvt. Ltd

Readymoney Terrace, 167,

Dr. Annie Besant Road, Worli,

Mumbai 400 018, India.

Tel. : +91(22) 6123 3500

Fax : +91(22) 2493 8826/+91 (22) 2497 8119

www.kwikdrawtubes.com

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