

# Information Data Sheet

**Detector Tube**      **Nitr-0.5**  
**Part No. (US):**    **487336**  
**Part No.**            **D5085818**

## 1. Application

Detection of nitrous fumes (nitric oxide + nitrogen dioxide, NO + NO<sub>2</sub>) 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.

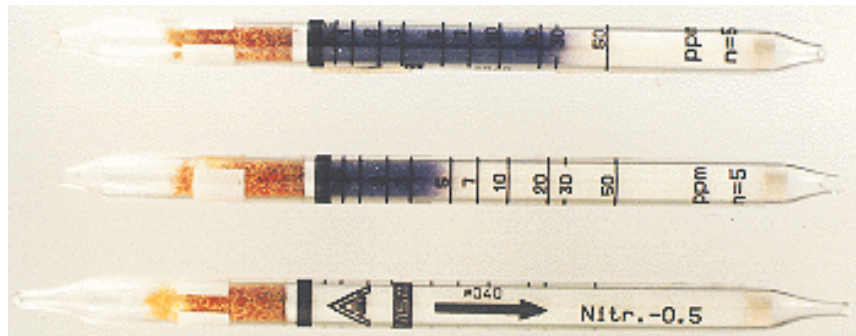
## 3. Measuring Range

0.5 ... 50 ppm nitrous fumes at n=5 (5 strokes).

## 4. Chemical Reaction and Color Change

Oxidation of an aromatic amine by nitrogen dioxide. Nitric oxide does not change color of the indicating layer, it has to be oxidized in the conversion layer to 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/m<sup>3</sup> at 5 °C (40 °F)] and 90% rh [36 g/m<sup>3</sup> at 35 °C (95 °F)].

## 6. Interferences and Cross Sensitivities

- a) No interference from:
  - hydrogen, methane, ethane, propane, carbon monoxide, carbon dioxide.
  - nitrous oxide up to 1 vol %.
  - higher saturated hydrocarbons (e.g. butanes, octanes), aromatic hydrocarbons (e.g. benzene), sulfur dioxide up to 1000 ppm.
- b) Halogens (chlorine, bromine), chlorine dioxide, ozone will be indicated. The sensitivity of indication is different.
- c) Hydrogen sulfide, ammonia, olefinic hydrocarbons (e.g. ethylene), acetylene are not indicated, but possibly will shorten the indication stain of nitrous fumes.

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