

Information Data Sheet

Detector Tube **CO₂-1%**
Part No. (US): **804419**
Part No. **D5085841**

1. Application

Detection of carbon dioxide (CO₂) 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.

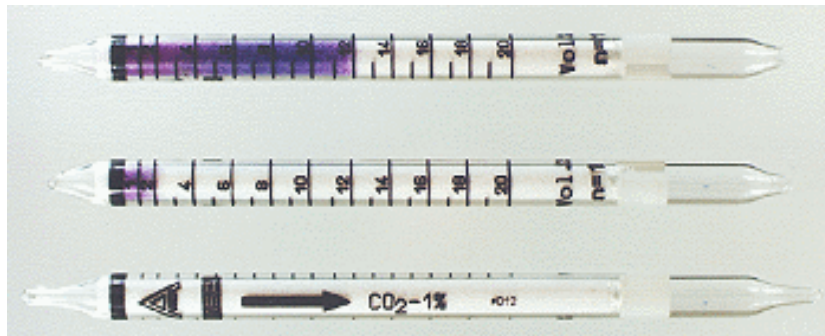
3. Measuring Range

1 vol.% ... 20 vol.% carbon dioxide at n=1 (1 stroke)

4. Chemical Reaction and Color Change

Reaction of carbon dioxide with hydrazine. Change of pH-value indicated by color change of acid-base indicator.

Color change: White → Violet



5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the reading between -20 °C and 50 °C (0 °F and 120 °F) and between 10 % rh (0.1 g/m³ at -20 °C [0 °F]) and 90 % rh (75 g/m³ at 50 °C [120 F]).

6. Interferences and Cross Sensitivities

- a) No interference from:
- hydrogen, methane, ethane, propane, butanes, carbon monoxide.
 - higher saturated hydrocarbons (e. g. hexanes, octanes), olefinic hydrocarbons (e. g. ethylene), aromatic hydrocarbons (e. g. benzene) up to 1 vol.% .
 - Sulfur dioxide, hydrogen sulfide, nitrogen dioxide, hydrogen chloride and other acidic gases up to 1 vol.%.
 - ammonia up to 1 vol.%.

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