

Information Data Sheet

Detector Tube **CO₂-100**

Part No. (US): **497606**

Part No. **D5086814**

1. Application

Detection of carbon dioxide (CO₂) in air or technical gases.

2. Detector Tube Sampling Pump

UNIPHOS 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.

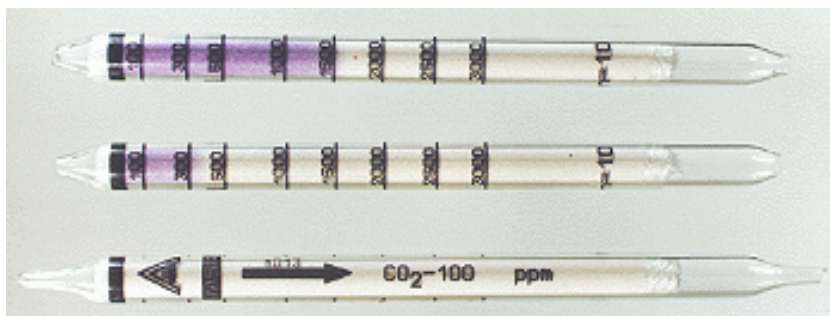
3. Measuring Range

100 ppm ... 3000 ppm carbon dioxide at n=10 (10 strokes).

4. Chemical Reaction and Color Change

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

Color change: white → blue



5. Ambient Conditions During Sampling

• Detector tubes can be used without compensation of the reading between 0 °C and 40 °C (32 °F and 104 °F) and between 10% rh [0.5 g/m³ at 0 °C (32 °F)] and 90% rh [46 g/m³ at 40 °C (104 °F)].

6. Interferences and Cross Sensitivities

- a) No interference from:
- hydrogen, methane, ethane, propane, butanes, carbon dioxide.
 - 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 100 ppm.
 - ammonia up to 100 ppm

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