

Information Data Sheet

Detector Tube CO₂-0.5%

Part No. (US): 710311

Part No. D5086844

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[®] I/H, 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

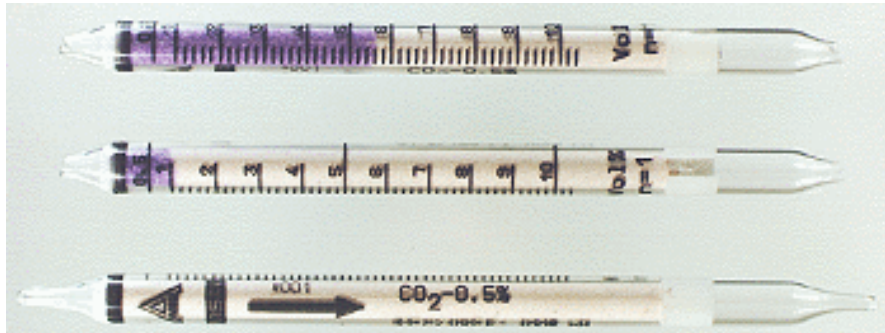
0.5 vol.% ... 10 vol.% at n=1 (1 stroke).

The calibration of the tube refers to 37 °C (100 °F) and 95 % rh.

4. Chemical Reaction and Color Change

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

Color change: White / light blue → Blue.



5. Ambient Conditions During Sampling

Detector tubes can be used between 0 °C and 50 °C (32 °F and 120 °F). Up to 100% RH water vapour will not affect accuracy of indication.

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 acetic gases up to 0.5 vol.%.
- Ammonia up to 0.5 vol.%.

Manufactured By:

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