

## Information Data Sheet

**Detector Tube**      **CO<sub>2</sub>-1%**  
**Part No. (US):**      **804419**  
**Part No.**              **D5085841**

### 1. Application

Detection of carbon dioxide (CO<sub>2</sub>) in air or in technical gases.

### 2. Detector Tube Sampling Pump

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

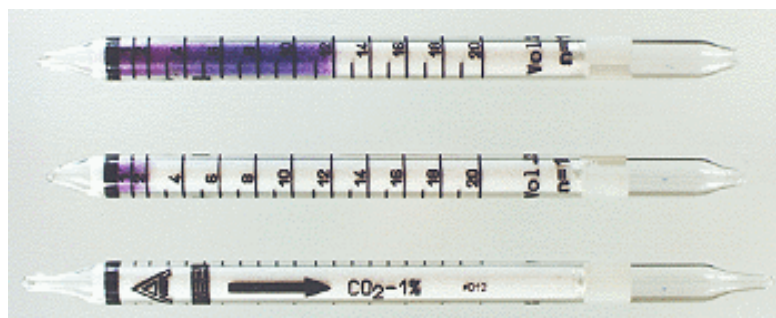
### 3. Measuring Range

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/m<sup>3</sup> at -20 °C [0 °F]) and 90 % rh (75 g/m<sup>3</sup> 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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