

## Information Data Sheet

**Detector Tube**      **CO<sub>2</sub>-0,1%**

**Part No. (US):**      **487333**

**Part No.**              **D5085817**

### 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® 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

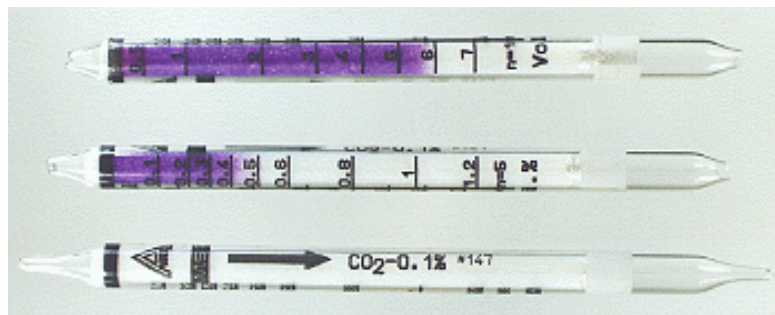
0.5 vol.% ... 7 vol.% carbon dioxide at n=1 (1 stroke)

0.1 vol.% ... 1.2 vol.% carbon dioxide at n=5 (5 strokes)

### 4. Chemical Reaction and Color Change

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

Color change:      white      →      violet.



### 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/m<sup>3</sup> at 0 °C [32 °F]) and 90 % rh (46 g/m<sup>3</sup> at 40 °C [104 °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.% (n=5).
- Sulfur dioxide, hydrogen sulfide, nitrogen dioxide, hydrogen chloride and other acidic gases up to 1000 ppm (n=1) or 200 ppm (n=5).
- ammonia up to 1000 ppm (n=1) or 200 ppm (n=5).

*Manufactured By:*

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