

Carbon Dioxide 1%/a-D

Order No. 81 01 051

Application Range

Standard Range			Measurement Time
1 to	30	Vol.-%	1 h
0.3 to	10	Vol.-%	3 h
0.2 to	6	Vol.-%	5 h
0.13 to	4	Vol.-%	8 h

Standard Deviation ± 20 to 25 %Color Change blue \rightarrow white

Ambient Operating Conditions

Temperature 10 to 30 °C

Absolute Humidity 1 to 15 mg H₂O / L

Reaction Principle

 $\text{CO}_2 + \text{pH Indicator} \rightarrow \text{white reaction product}$

Cross Sensitivity

Other acid reacting substances are also indicated, but normally this is not a problem unless the concentrations exceed the TLVs. For example, the following substances do not interfere during a 8-hour measurement.

- 100 ppm ammonia
- 50 ppm sulfur dioxide
- 50 ppm nitrogen dioxide
- 50 ppm hydrogen sulfide
- 25 ppm hydrochloric acid

