

Carbon Dioxide 500/a-D

Order No. 81 01 381

Application Range

Standard Range	Measurement Time
500 to 20,000 ppm	1 h
250 to 10,000 ppm	2 h
125 to 5,000 ppm	4 h
65 to 2,500 ppm	8 h
Standard Deviation	± 20 to 25 %
Color Change	blue → white

Ambient Operating Conditions

Temperature:	10 to 30 °C
Absolute Humidity	1 to 16 mg H ₂ O / L

Reaction Principle

CO₂ + pH Indicator → 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 4-hour measurement.

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

