

Carbon Dioxide 100/a

Order No. 81 01 811

Application Range

Standard Measuring Range:	100 to 3,000 ppm
Number of Strokes n:	10
Time for Measurement:	approx. 4 min.
Standard Deviation:	± 10 to 15 %
Color Change:	white → pale violet/ blue violet

Ambient Operating Conditions

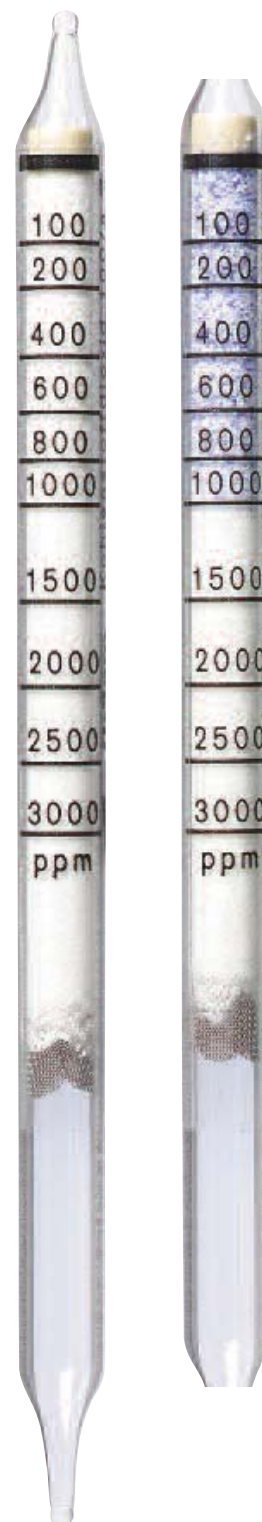
Temperature:	15 to 25 °C
Absolute Humidity:	max. 23 mg H ₂ O / L

Reaction Principle



Cross Sensitivity

No influence on the reading by 10 ppm hydrogen sulfide and 2 ppm sulfur dioxide.



ST-51-2001

Carbon Dioxide 0.1%/a

Order No. CH 23 501

C

Application Range

Standard Measuring Range:	0.5 to 6 vol. % / 0.1 to 1.2 vol. %
Number of Strokes n:	1 / 5
Time for Measurement:	approx. 30 s / approx. 2.5 min
Standard Deviation:	± 5 to 10 %
Color Change:	white → violet

Ambient Operating Conditions

Temperature:	0 to 30 °C
Absolute Humidity:	max. 30 mg H ₂ O /L

Reaction Principle

CO₂ + Amine → violet reaction product

Cross Sensitivity

No influence on the reading by 10 ppm hydrogen sulfide and 2 ppm sulfur dioxide.



Carbon Dioxide 0.5%/a

Order No. CH 31 401

Application Range

Standard Measuring Range:	0.5 to 10 vol. %
Number of Strokes n:	1
Time for Measurement:	approx. 30 s
Standard Deviation:	± 5 to 10 %
Color Change:	white → violet

Ambient Operating Conditions

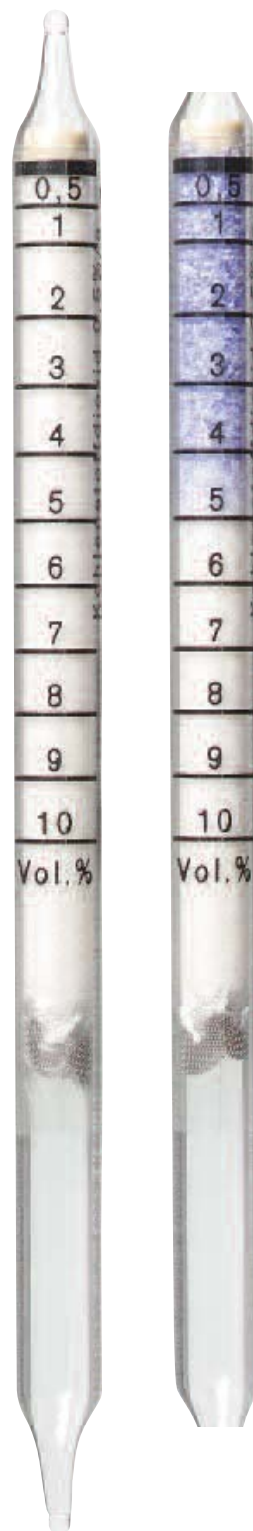
Temperature:	0 to 40 °C
Absolute Humidity:	max. 50 mg H ₂ O / L

Reaction Principle

CO₂ + amine → violet reaction product

Cross Sensitivity

Hydrogen sulfide in the TLV range does not interfere. In a range comparable to the calibrated range for carbon dioxide, sulfur dioxide is indicated. The sulfur dioxide sensitivity is approximately $\frac{1}{3}$ (e.g. 3 vol. % sulfur dioxide gives an indication of 1 vol. %).



ST-54-2001

Carbon Dioxide 1%/a

Order No. CH 25 101

C

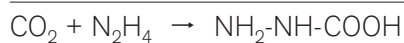
Application Range

Standard Measuring Range:	1 to 20 vol. %
Number of Strokes n:	1
Time for Measurement:	approx. 30 s
Standard Deviation:	± 5 to 10 %
Color Change:	white → violet

Ambient Operating Conditions

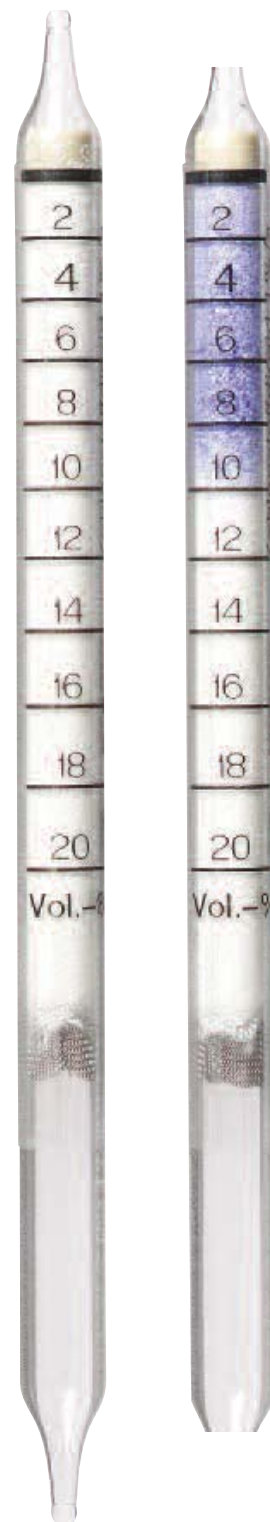
Temperature:	0 to 40 °C
Absolute Humidity:	max. 40 mg H ₂ O / L

Reaction Principle



Cross Sensitivity

Hydrogen sulfide in the TLV range does not interfere. In a range comparable to the calibrated range for carbon dioxide, sulfur dioxide is indicated. The sulfur dioxide sensitivity is approximately $\frac{1}{3}$ (e.g. 6 vol. % sulfur dioxide gives an indication of 2 vol. %).



ST-55-2001

Carbon Dioxide 5%/A

Order No. CH 20 301

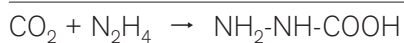
Application Range

Standard Measuring Range:	5 to 60 vol. %
Number of Strokes n:	1
Time for Measurement:	approx. 2 min
Standard Deviation:	± 10 to 15 %
Color Change:	white → violet

Ambient Operating Conditions

Temperature:	0 to 40 °C
Absolute Humidity:	max. 50 mg H ₂ O / L

Reaction Principle



Cross Sensitivity

Hydrogen sulphide is not indicated near the limit value. Sulfur dioxide is indicated with comparable concentration range, however, with three times less the sensitivity.



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