Carbon Monoxide 5/a-P

Order No. 67 28 511

Application Range

Standard Measuring Range:	5 to 150 ppm
Test Volume:	1 L
Flow Rate:	0.2 L / min
Time for Measurement:	approx. 5 min
Standard Deviation:	± 10 to 15 %
Color Change:	white → brownish-green

Ambient Operating Conditions

Temperature:	0 to 40 °C
Absolute Humidity:	0 to 50 mg H_2O / L
Pressure:	The tube may only be used for depressurized compressed air

Reaction Principle

$$5\ CO + I_2O_5 \xrightarrow{H_2S_2O_7} I_2 + 5\ CO_2$$

Cross Sensitivity

Acetylene reacts similarly to carbon monoxide but with less sensitivity.

Petrol, benzene, halogenated hydrocarbons and hydrogen sulfide are retained in the pre-layer.

Higher concentrations of easily cleavable halogenated hydrocarbons (e.g. trichloroethylene) may from chromyl chloride in the pre-layer which changes the indicating layer to yellowish-brown.

In case of high olefine concentrations it is not possible to measure carbon monoxide.

Extension of the Measuring Range

Using a test volume of 2 L divide the reading by 2, measuring range 2.5 to 75 ppm.

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