

# Natural Gas Test

Order No. CH 20 001

M

## Application Range

Standard Measuring Range:	Qualitative determination of natural gas
Number of Strokes n:	5
Time for Measurement:	approx. 100 s
Standard Deviation:	50 %
Color Change:	white → brown green to grey violet

## Ambient Operating Conditions

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

## Reaction Principle

- a)  $\text{CH}_4 + \text{KMnO}_4 + \text{H}_2\text{S}_2\text{O}_7 \rightarrow \text{CO}$   
 b)  $\text{CO} + \text{I}_2\text{O}_5 \rightarrow \text{I}_2 + \text{CO}_2$

## Cross Sensitivity

Due to the reaction principle a number of other organic compounds such as propane and butane are indicated as well. Carbon monoxide is also indicated. It is not possible to differentiate between different compounds.



ST-187-2001