Order No. CH 30 901

Application Range

| Standard Measuring Range: | 0.5 to 3.0 Vol% |
|---------------------------|-------------------|
| Number of Strokes n: | 5 |
| Time for Measurement: | approx. 1 min |
| Standard Deviation: | ± 10 to 15 % |
| Color Change: | grey green → pink |

Ambient Operating Conditions

| Temperature: | 5 to 40 °C |
|--------------------|--------------------------------|
| Absolute Humidity: | $<$ 30 mg $\rm H_2O$ / $\rm L$ |

Reaction Principle

| a) $H_2 + \frac{1}{2} O_2 \rightarrow H_2 O_3$ | a) | H_2 | + | 1/2 | 0, | \rightarrow | H_2C |
|--|----|-------|---|-----|----|---------------|--------|
|--|----|-------|---|-----|----|---------------|--------|

b) $H_2O + SeO_2 + H_2SO_4 \rightarrow pink reaction product$

Cross Sensitivity

Up to 1,000 ppm CO has no influence on the indication; higher concentrations lead to lower measurement results. Acetylene and alcohols react similarly to hydrogen.

Additional Information

Do not use in potentially explosive areas. Qualify before use with a combustible gas monitor. When the hydrogen concentration is above 3 Vol.-% the catalysis layer heats up during the measurement with a reddish glow.

Determination of hydrogen in air with at least 5 Vol.-% O₂.



