Hydrogen 0.5%/a

Order No. CH 30 901

Application Range

0.5 to 3.0 vol. % Standard Measuring Range:

Number of Strokes n: 5

Time for Measurement: approx. 1 min Standard Deviation: ± 10 to 15 %

Color Change: yellow-green → pink

Ambient Operating Conditions

5 to 40 °C Temperature:

< 30 mg H₂O / L Absolute Humidity:

Reaction Principle

a) $H_2 + \frac{1}{2} O_2 \rightarrow H_2 O$

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.



