Application Range

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

Ambient Operating Conditions

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

Reaction Principle

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



T-170-200