

# Hydrogen 0.2%/a

Order No. 81 01 511

H

## Application Range

Standard Measuring Range:	0.2 to 2.0 Vol.-%
Number of Strokes n:	1
Time for Measurement:	approx. 1 min
Standard Deviation:	± 10 to 15 %
Color Change:	green yellow → turquoise blue

## Ambient Operating Conditions

Temperature:	20 to 40 °C
Absolute Humidity:	max. 50 mg H <sub>2</sub> O / L

## Reaction Principle

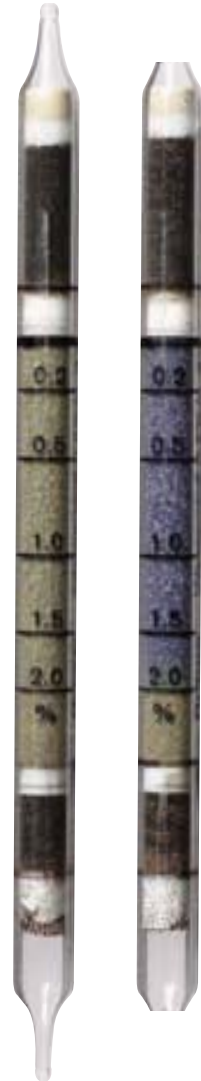
- a)  $\text{H}_2 + \frac{1}{2} \text{O}_2 \rightarrow \text{H}_2\text{O}$   
 b)  $\text{H}_2\text{O} + \text{Indicator} \rightarrow \text{turquoise blue reaction product}$

## Cross Sensitivity

- No interference by:  
 0.1 Vol.-% acetylene  
 6 Vol.-% alcohol  
 6 Vol.-% ammonia  
 0.5 Vol.-% carbon monoxide

## Additional Information

The indicating layer is heated up by hydrogen concentrations of more than 10 Vol.-%. The air sample must not contain additional flammable substances whose ignition temperature is below 250°C as this will cause an explosion risk.



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