

# 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:	± 15 to 20 %
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)  $H_2 + 1/2 O_2 \rightarrow H_2O$   
 b)  $H_2O + \text{indicator} \rightarrow \text{turquoise blue reaction product}$

## 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/ 482 °F as this will cause an explosion risk.



ST-169-2001



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