

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 ₂ O / L

Reaction Principle

- $\text{H}_2 + 1/2 \text{O}_2 \rightarrow \text{H}_2\text{O}$
- $\text{H}_2\text{O} + \text{indicator} \rightarrow \text{turquoise blue reaction product}$

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



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