

Ethylene 0.1/a

Order No. 81 01 331

E

Application Range

Standard Measuring Range:	0.2 to 5 ppm
Number of Strokes n:	20
Time for Measurement:	approx. 30 min
Standard Deviation:	± 15 to 30 %
Color Change:	pale yellow → greyish blue

Ambient Operating Conditions

Temperature:	10 to 40 °C
Absolute Humidity:	5 to 20 mg H ₂ O / L

Reaction Principle

$\text{CH}_2=\text{CH}_2 + \text{Pd-Molybdate complex} \rightarrow \text{blue reaction product}$

Cross Sensitivity

Other similar compounds are indicated in addition to ethylene, e.g.:

- 100 ppm butadiene result in a reading of 1 ppm
- 50 ppm butylene result in a reading of 1 ppm
- 5 ppm propylene result in a reading of 1 ppm
- 20 ppm hydrogen sulfide result in a reading of 2 ppm
- 25 ppm CO change the indicating layer to a greyish blue.



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