Formaldehyde 0.2/a

Order No. 67 33 081

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Application Range

Standard Measuring Range:	0.5 to 5 / 0.2 to 2.5 ppm
Number of Strokes n:	10 / 20
Time for Measurement:	approx. 1.5 min / approx. 3 min
Standard Deviation:	± 20 to 30 %
Color Change:	white → pink

Ambient Operating Conditions

Temperature:	10 to 40 °C
Absolute Humidity:	3 to 15 mg H_2O / L

Reaction Principle

$HCHO + C_6H_4(CH_3)_2 + H_2SO_4 \rightarrow$ quinoid reaction products

Cross Sensitivity

Styrene, vinyl acetate, acetaldehyde, acrolein, diesel fuel and furfuryl alcohol are indicated with a yellowish brown discoloration. 500 ppm Octane, 5 ppm nitric oxide and 5 ppm nitrogen dioxide have no effect.

Extension of the Measuring Range

The measuring range can be extended in conjunction with the activation tube (Order No. 81 01 141). The following information applies to the n = 20 stroke scale:

Pump Strokes	Scale divided by	Range
40	2	0.1 to 1.25 ppm
80	4	0.05 to 0.63 ppm
100	5	0.04 to 0.5 ppm

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