

# Formaldehyde 0.2/a

Order No. 67 33 081

E

## 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/ L

## Reaction Principle

$$\text{HCHO} + \text{C}_6\text{H}_4(\text{CH}_3)_2 + \text{H}_2\text{SO}_4 \rightarrow \text{quinoid reaction products}$$

## 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

