

# Formaldehyde 0.2/a

Order No.

67 33081



ST-46-2001

**Standard Measuring Range** : 0.5 to 5 / 0.2 to 2.5 ppm  
**Number of Strokes (n)** : 10 / 20  
**Time for Measurement** : app. 1.5 min / app. 3 min  
**Standard Deviation** :  $\pm 20$  to 30 %  
**Colour Change** : white  $\rightarrow$  pink

## Ambient Operating Conditions

**Temperature** : 10 to 40 °C  
**Absolute Humidity** : 3 to 15 mg H<sub>2</sub>O / 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 (P/N 8101141). 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