

Order No.  
67 28961

## Ethylene Oxide 1/a

**Standard Measuring Range** : 1 to 15 ppm  
**Number of Strokes (n)** : 20  
**Time for Measurement** : app. 8 min  
**Standard Deviation** :  $\pm 20$  to 30 %  
**Colour Change** : white  $\rightarrow$  pink

### Ambient Operating Conditions

**Temperature** : 10 to 30 °C  
**Absolute Humidity** : 3 to 15 mg H<sub>2</sub>O / L

### Reaction Principle

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

### Cross Sensitivity

Styrene, vinyl acetate and acetaldehyde are indicated with a yellowish brown discoloration.

It is impossible to measure ethylene oxide in the presence of ethylene glycol and formaldehyde because they produce the same discoloration.

### Additional Information

The reagent ampoule must be broken before carrying out the measurement.



ST-204-2001