

Hydrocyanic Acid 2/a

Catalog No CH25701

Standard Measuring Range: 2 to 30 ppm
Number of Strokes (n): 5
Time for Measurement: about 1 minute
Standard Deviation: ± 10 to 15%
Color Change: yellow orange to red

Ambient Operation Conditions

Temperature: 0 to 30°C
Absolute Humidity: maximum 20 mg H₂O/L

Reaction Principle

- a) $\text{HCN} + \text{HgCl}_2 \longrightarrow \text{HCl}$
- b) $\text{HCl} + \text{Methyl red} \longrightarrow \text{red reaction product}$

Cross Sensitivity

100 ppm Hydrogen sulfide, 300 ppm ammonia, 200 ppm sulfur dioxide, 50 ppm nitrogen dioxide and 1,000 ppm hydrogen chloride do not affect the indication.

Hydrogen sulfide turns the precleans layer dark brown, but does not influence the hydrocyanic acid indication.

Ammonia concentrations above 300 ppm can cause the hydrocyanic acid indication at the start of the indicating layer to discolor back to yellow.

There is no effect on the indication by up to 1,000 ppm acrylonitrile.

It is impossible to measure hydrocyanic acid in the presence of phosphine.

Extension of the Measuring Range

Using n=2, multiply the reading by 2.5; the range of measurement is 5 to 75 ppm.

Using n=1, multiply the reading by 5; the range of measurement is 10 to 150 ppm

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