Application Data

Application Range	Determination of phosphine in air	
Measuring Range	0.5 to 3 ppm 0.1 to 1.0 ppm	
Number of Strokes	1 3	
Measuring Time	approx. 1 min approx. 2.5 min	
Standard Deviation	± 10 to 15 %	
Color Change	yellow> red	

Ambient Conditions

Temperature	Humidity	Air Pressure
2 °C to 40 °C	< 40 mg/L	1013 hPa
(35.6 to 104 ° F)		Actual atmospheric Pressure hPa

Principle of Reaction

HgCl₂ + PH₃ -----> Hg-Phosphide + HCl HCl + pH-Indicator -----> red reaction product

Cross Sensitivity

A maximum of 6 ppm sulfur dioxide or 15 ppm hydrogen chloride have no influence on the reading. Higher concentrations result in plus errors.

Ammonia (>100 ppm) result in minus errors.

Hydrogen sulfide and Arsine are indicated with different sensibility.

30 ppm hydrocyanic acid has no influence on the reading.