

RKI Sensor Specification

Features: Good warm-up time
Good zero stability
Fast response time

Phosphine (PH₃)

Part Number: ES-23AH-PH3
Sensor Application: EAGLE, Fixed Systems

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10 % of reading
Range of Measurement	0-1.00 ppm	Repeatability	+/- 5% of reading
Resolution	1% of full scale	T₉₀ Response time (20°C, 2 min. exposure)	90 seconds

Operating Conditions			
Temperature Range	-20°C to +45°C	Life Expectancy	2-3 Years
Humidity Range	10-95% RH, Non Condensing	Warranty	1 Year

Known Gas Interferences

Gas	PPM Gas Applied	Reading
Acetone ((CH ₃) ₂ CO)	1.2% vol.	0.0
Ammonia (NH ₃)	150.0	0.0
Arsine (AsH ₃)	1.0	0.47
Butyl Acetate (CH ₃ COO(CH ₂) ₃ CH ₃)	1.0% vol.	0.0
Chlorine (Cl ₂)	1.0	-0.6
Chlorine Trifluoride (ClF ₃)		
Diborane (B ₂ H ₆)	10.0	0.38
Disilane (Si ₂ H ₆)	1.0	0.06
Fluorine (F ₂)	3.0	0.0
Hydrogen Chloride (HCl)	1% vol.	0.09

Gas	PPM Gas Applied	Reading
Hydrogen Cyanide (HCN)	10.0	0.08
Hydrogen Selenide (SeH ₂)	0.1	0.21
Hydrogen Sulfide (H ₂ S)	1.0	0.5
Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH)	1% vol.	0.0
Nitric Oxide (NO)	8.0	-0.4
Silane (SiH ₄)	1.0	0.05
Sulfur Dioxide (SO ₂)	5.0	0.06
1,1,1-Trichloroethane (C ₂ H ₃ Cl ₃)	1.0% vol.	0.0
Toluene (C ₇ H ₈)	1.0% vol.	0.0
Xylene (C ₈ H ₁₀)	0.4% vol.	0.0