

RKI Sensor Specification

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

Disilane (Si₂H₆)

Part Number: ES-23AH-Si₂H₆
Sensor Application: EAGLE, Fixed Systems

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
Range of Measurement	0 – 15 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
Butyl Acid (CH ₃ COO(CH ₂) ₃ CH ₃)	1% vol.	0.0
Xylene (C ₆ H ₄ (CH ₃) ₃)	4,000	0.0
Arsine (AsH ₃)	1.04	4.9
Ethanol (C ₂ H ₅ OH)	1% vol.	0.0
Chlorine (Cl ₂)	2.0	-6.2
Diborane (B ₂ H ₆)	1.0	0.4
Ethyl Acetate (CH ₃ CO ₂ H ₅)	4,000	0.4
Fluorine (F ₂)	3.0	-0.4
Hydrogen (H ₂)	1% vol.	0.8

Gas	PPM Gas Applied	Reading
Hydrogen Chloride (HCl)	1.0	0.9
Hydrogen Cyanide (HCN)	10.0	0.8
Hydrogen Fluoride (HF)	6.0	0.7
Hydrogen Sulfide (H ₂ S)	1.0	4.1
I.P.A. ((CH ₃) ₂ CHOH)	1% vol.	0.0
Nitric Acid (HN ₃)	10.0	-1.4
Phosphine (PH ₃)	0.5	4.4
Silane (SiH ₄)	8.0	3.3
Sulfur Dioxide (SO ₂)	5.0	0.4
Toluene (C ₆ H ₅ CH ₃)	1% vol.	0.0
Trichloroethylene (CHCl:CCl ₂)	1% vol.	0.0