

RKI Sensor Specification

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

Disilane (Si₂H₆)

Part Number: ES-23AH-Si₂H₆
Sensor Application: GD-K8A, GD-K7D2

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10 % of reading
Range of Measurement	0 – 15 ppm	Repeatability	+/- 5% of reading
Resolution	1% of full scale	T ₉₀ 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 ppm
Ammonia (NH ₃)	150	0.0 ppm
Arsine (AsH ₃)	1.04	4.9 ppm
Butyl Acetate (CH ₃ COO(CH ₂) ₃ CH ₃)	1% vol	0.0 ppm
Chlorine (Cl ₂)	2.0	-6.2 ppm
Diborane (B ₂ H ₆)	1.0	0.4 ppm
Ethanol (C ₂ H ₅ OH)	1% vol	0.0 ppm
Ethyl Acetate (CH ₃ CO ₂ H ₅)	0.4% vol	0.4 ppm
Fluorine (F ₂)	3	-0.4 ppm
Hydrogen (H ₂)	1% vol	0.8 ppm
Hydrogen Chloride (HCl)	1.0	0.9 ppm

Gas	PPM Gas Applied	Reading
Hydrogen Cyanide (HCN)	10	0.8 ppm
Hydrogen Fluoride (HF)	6.0	0.7 ppm
Hydrogen Sulfide (H ₂ S)	1.0	4.1 ppm
Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH)	1% vol	0.0 ppm
Nitric Acid (HNO ₃)	10	-1.4 ppm
Phosphine (Ph ₃)	0.5	4.4 ppm
Silane (SiH ₄)	8	3.3 ppm
Sulfur Dioxide (SO ₂)	5	0.4 ppm
Toluene (C ₇ H ₈)	1% vol	0.0 ppm
Trichloroethylene (TCE)	1% vol	0.0 ppm
Xylene (C ₈ H ₁₀)	0.4% vol	0.0 ppm