

RKI Sensor Specification

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

Hydrogen Sulfide (H₂S)

Part Number: ES-23AH-H2S
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 – 1 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 ppm
Ammonia (NH ₃)	150 ppm	0 ppm
Butyl Acetate (CH ₃ COO(CH ₂) ₃ CH ₃)	1 % vol	0 ppm
Chlorine (Cl ₂)	1 ppm	-1.2 ppm
Fluorine (F ₂)	3 ppm	0 ppm
Hydrogen (H ₂)	1 % vol	0.18 ppm
Hydrogen Chloride (HCl)	1 ppm	0.2 ppm
Hydrogen Cyanide (HCN)	10 ppm	0.16 ppm

Gas	PPM Gas Applied	Reading
Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH)	1 % vol	0 ppm
Nitric Oxide (NO)	8 ppm	-0.8 ppm
Silane (SiH ₄)	1 ppm	0.1 ppm
Sulfur Dioxide (SO ₂)	5 ppm	0.12 ppm
1,1,1-Trichloroethane (C ₂ H ₃ Cl ₃)	1 % vol	0 ppm
Toluene (C ₇ H ₈)	1 % vol	0 ppm
Xylene (C ₈ H ₁₀)	0.4 % vol	0 ppm