

RKI Sensor Specification

Hydrogen Sulfide (H2S)

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

Part Number:
Sensor Application:

ES-87RW
Eagle 2

Technical Specifications			
Measuring Principle	Amperometric 2-electrode sensor	Accuracy	+/- 5% of reading or +/- 2 ppm H2S (whichever is greater)
Range of Measurement	0 – 100 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 CO)	1.02% Vol.	0.1 ppm
Acetylene (C ₂ H ₂)	1100 ppm	10 ppm
Ammonia (NH ₃)	44900 ppm	-10 ppm
Carbon Monoxide (CO)	1130 ppm	10 ppm
Chlorine (Cl ₂)	82 ppm	-10 ppm
Disulfur-dimethyl (CH ₃ SSCH ₃)	61.8 ppm	10 ppm
Ethanol (CH ₃ CH ₂ OH)	2670 ppm	10 ppm
Ethylene (C ₂ H ₄)	3300 ppm	10 ppm
Hydrogen (H ₂)	19000 ppm	10 ppm
Isobutylene (i-C ₄ H ₈)	321 ppm	10 ppm
Isopropyl Alcohol (CH ₃) ₂ CHOH)	2740 ppm	10 ppm

Gas	PPM Gas Applied	Reading
Methane (CH ₄)	5.05 % Vol.	0.1 ppm
Methylmercaptan (CH ₃ SH)	13.1 ppm	10 ppm
Methanol (CH ₃ OH)	5240 ppm	10 ppm
Nitric Acid (HNO ₃)	1070 ppm	10 ppm
Nitrogen Dioxide (NO ₂)	714 ppm	10 ppm
Nitrogen Monoxide (NO)	25.3 ppm	10 ppm
Ozone (O ₃)	56.7 ppm	-10 ppm
Sulfur Dioxide (SO ₂)	110 ppm	10 ppm
Dimethyl Sulfide (CH ₃) ₂ S	29.1 ppm	10 ppm