

RKI Sensor Specification

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

Hydrogen Sulfide (H₂S)

Part Number: ES-1827i-H₂S
Sensor Application: GX-2012, GX-2009, GX-2003,
GX-2001, KS-01, GW2HS

Technical Specifications			
Measuring Principle	Amperometric 2-electrode sensor	Accuracy	+/- 5% of reading or +/- 2 ppm H ₂ S (whichever is greater)
Range of Measurement	0 – 100 ppm	Repeatability	+/- 5% of reading
Resolution	0.5% of full scale	T₉₀ Response time (20°C, 2 min. exposure)	30 seconds

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

Known Gas Interferences

Gas	PPM Gas Applied	Reading
Acetylene (C ₂ H ₂)	3,000	10
Acetone ((CH ₃) ₂ CO)	1%	0.00
Ammonia (NH ₃)	5,320	-10
Carbon Monoxide (CO)	5,000	10
Chlorine (Cl ₂)	40.8	-10
Ethanol (C ₂ H ₅ OH)	1%	0.7
Ethylene (C ₂ H ₄)	29,000	10
Gasoline	39,000	10
Hydrogen (H ₂)	5,000	10
Hydrogen Chloride (HCl)	423	10

Gas	PPM Gas Applied	Reading
Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH)	2%	0.8
Isobutylene ((CH ₃) ₂ C=CH ₂)	29,000	10
Methyl Mercaptan (CH ₃ SH)	14.3	10
Nitrogen Dioxide (NO ₂)	53.9	-10
Nitrogen Monoxide (NO)	4,800	-10
Ozone (O ₃)	28	-10
Sulfur Dioxide (SO ₂)	2,100	10
Toluene (C ₆ H ₅ CH ₃)	1%	0.2
Xylene (C ₆ H ₅ (CH ₃)) ₂	1%	0.1