

RKI Sensor Specification

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

Hydrogen Sulfide (H₂S)

Part Number: ES/ESM/ESU-237-H2S
Sensor Application: GD-K8A, GD-K7D2, GD-K71D, Eagle, GD-K77D, GD-70D

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
Range of Measurement	0 – 30 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)	750 ppm	0.0 ppm
Carbon Monoxide (CO)	100 ppm	3.5 ppm
Hydrogen (H ₂)	2000 ppm	16.2 ppm
Hydrogen Chloride (HCl)	6 ppm	0.2 ppm
Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH)	400 ppm	13.4 ppm
Mercaptan (CH ₃ SH)	17.4 ppm	10.0 ppm
Methane (CH ₄)	5.7 % Vol.	-0.1 ppm

Gas	PPM Gas Applied	Reading
Methanol (CH ₃ OH)	200 ppm	1.2 ppm
Nitric Oxide (NO)	100 ppm	0.8 ppm
Nitrogen Dioxide (NO ₂)	50 ppm	-8.8 ppm
Ozone (O ₃)	0.4 ppm	-0.2 ppm
Phosphine (PH ₃)	0.54 ppm	0.2 ppm
Silane (SiH ₄)	7.83 ppm	2.2 ppm
Sulfur Dioxide (SO ₂)	50 ppm	8.7 ppm

Part # Prefix	Applicable Instruments
ES	GD-K8A, GD-K7D2, Eagle
ESM	GD-K71D, GD-K77D
ESU	GD-70D