

# RKI Sensor Specification

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

## Hydrogen Sulfide (H<sub>2</sub>S)

**Part Number:** ES-237-H<sub>2</sub>S  
**Sensor Application:** EAGLE, Fixed Systems

Technical Specifications			
<b>Measuring Principle</b>	Amperometric 3-electrode sensor	<b>Accuracy</b>	+/- 10 % of reading
<b>Range of Measurement</b>	0 – 30 ppm	<b>Repeatability</b>	+/- 5% of reading
<b>Resolution</b>	1% of full scale	<b>T<sub>90</sub> Response time</b> (20°C, 2 min. exposure)	90 seconds

Operating Conditions			
<b>Temperature Range</b>	-20°C to +45°C	<b>Life Expectancy</b>	2-3 Years
<b>Humidity Range</b>	10-95% RH, Non Condensing	<b>Warranty</b>	1 Year

## Known Gas Interferences

Gas	PPM Gas Applied	Reading
Acetone ((CH <sub>3</sub> ) <sub>2</sub> CO)	750 ppm	0.0 ppm
Carbon Monoxide (CO)	100 ppm	3.5 ppm
Hydrogen (H <sub>2</sub> )	2000 ppm	16.2 ppm
Hydrogen Chloride (HCl)	6 ppm	0.2 ppm
Isopropyl Alcohol (IPA) ((CH <sub>3</sub> ) <sub>2</sub> CHOH)	400 ppm	13.4 ppm
Methane (CH <sub>4</sub> )	5.7 % vol	-0.1 ppm

Gas	PPM Gas Applied	Reading
Nitric Oxide (NO)	100 ppm	0.8 ppm
Nitrogen Dioxide (NO <sub>2</sub> )	50 ppm	-8.8 ppm
Phosphine (Ph <sub>3</sub> )	0.54ppm	0.2 ppm
Silane (SiH <sub>4</sub> )	7.83 ppm	2.2 ppm
Sulfur Dioxide (SO <sub>2</sub> )	50 ppm	8.7 ppm