

# RKI Sensor Specification

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

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

**Part Number:** ES-23AH-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 – 1 ppm	<b>Repeatability</b>	+/- 5% of reading
<b>Resolution</b>	1% of full scale	<b>T<sub>90</sub> Response time (20°C, 2 min. exposure)</b>	90 seconds

Operating Conditions			
Temperature Range	-20°C to +45°C	<b>Life Expectancy</b>	2-3 Years
Humidity Range	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)	1.2 % vol	0 ppm
Ammonia (NH <sub>3</sub> )	150 ppm	0 ppm
Butyl Acetate (CH <sub>3</sub> COO(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub> )	1 % vol	0 ppm
Chlorine (Cl <sub>2</sub> )	1 ppm	-1.2 ppm
Fluorine (F <sub>2</sub> )	3 ppm	0 ppm
Hydrogen (H <sub>2</sub> )	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 <sub>3</sub> ) <sub>2</sub> CHOH)	1 % vol	0 ppm
Nitric Oxide (NO)	8 ppm	-0.8 ppm
Silane (SiH <sub>4</sub> )	1 ppm	0.1 ppm
Sulfur Dioxide (SO <sub>2</sub> )	5 ppm	0.12 ppm
1,1,1-Trichloroethane (C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> )	1 % vol	0 ppm
Toluene (C <sub>7</sub> H <sub>8</sub> )	1 % vol	0 ppm
Xylene (C <sub>8</sub> H <sub>10</sub> )	0.4 % vol	0 ppm