

# RKI Sensor Specification

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

**Arsine (AsH<sub>3</sub>)**  
**Part Number:** ES-23AH-ASH3  
**Sensor Application:** EAGLE, Fixed Systems

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10 % of reading
Range of Measurement	0 – 1 ppm	Repeatability	+/- 5% of reading
Resolution	1% of full scale	T <sub>90</sub> 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 <sub>3</sub> ) <sub>2</sub> CO)	1.2% vol.	0.0
Ammonia (NH <sub>3</sub> )	150.0	0.0
Butyl Acid (CH <sub>3</sub> COO(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub> )	1% vol.	0.0
Chlorine (Cl <sub>2</sub> )	1.0	-0.7
Fluorine (F <sub>2</sub> )	3.0	0.0
Hydrogen (H <sub>2</sub> )	1% vol.	0.1
Hydrogen Cyanide (HCN)	10.0	0.09

Gas	PPM Gas Applied	Reading
Hydrogen Sulfide (H <sub>2</sub> S)	1.0	0.6
I.P.A. ((CH <sub>3</sub> ) <sub>2</sub> CHOH)	1% vol.	0.0
Nitric Oxide (NO)	8.0	-0.5
Sulfur Dioxide (SO <sub>2</sub> )	5.0	0.07
Toluene (C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> )	1% vol.	0.0
Trichloroethylene (CHCl:CCl <sub>2</sub> )	1% vol.	0.0
Xylene (C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>3</sub> )	.4% vol.	0.0