

# RKI Sensor Specification

## Diborane (B<sub>2</sub>H<sub>6</sub>)

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

**Part Number:** ES-23AY-B2H6  
**Sensor Application:** EAGLE, Fixed Systems

Technical Specifications			
<b>Measuring Principle</b>	Amperometric 3-electrode sensor	<b>Accuracy</b>	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
<b>Range of Measurement</b>	0 – 0.30 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			
<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
Arsine (AsH <sub>3</sub> )	0.1	0.09
Hydrogen (H <sub>2</sub> )	2 % vol	0.21
Phosphine (PH <sub>3</sub> )	1	0.78
Silane (SiH <sub>4</sub> )	14	1.51
Hydrogen Selenide (SeH <sub>2</sub> )	0.2	0.03
Chlorine (Cl <sub>2</sub> )	0.8	-0.12
Ammonia (NH <sub>3</sub> )	40	0.49

Gas	PPM Gas Applied	Reading
Hydrogen Chloride (HCL)	5	0.10
I.P.A. ((CH <sub>3</sub> ) <sub>2</sub> CHCO	5 % vol	0.02
Nitrogen Monoxide (NO)	24	0
Nitrogen Dioxide (NO <sub>2</sub> )	3.6	-0.43
Hydrogen Sulfide (H <sub>2</sub> S)	0.3	0.12
Germane (GeH <sub>4</sub> )	0.4	0.02
Acetone ((CH <sub>3</sub> ) <sub>2</sub> CO)	20 % vol	0.02