

RKI Sensor Specification

Diborane (B₂H₆)

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

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

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

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