

RKI Sensor Specification

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

Part Number:
Sensor Application:

Diborane (B₂H₆)
ES/ESM/ESU-23AY-B2H6
GD-K8A, GD-K7D2, GD-K71D,
Eagle, GD-K77D, GD-70D

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
Range of Measurement	0 – 0.3 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
Acetone ((CH ₃) ₂ CO)	20% Vol.	0.02 ppm
Acetylene (C ₂ H ₂)	103 ppm	0.07 ppm
Ammonia (NH ₃)	40 ppm	0.49 ppm
Arsine (AsH ₃)	0.1 ppm	0.09 ppm
Carbon Monoxide (CO)	1.01% Vol.	0.06 ppm
Chlorine (Cl ₂)	0.8 ppm	-0.12 ppm
Germane (GeH ₄)	0.4 ppm	0.02 ppm
Hydrogen (H ₂)	2% Vol.	0.21 ppm
Hydrogen Chloride (HCL)	5 ppm	0.10 ppm

Gas	PPM Gas Applied	Reading
Hydrogen Fluoride (HF)	6.0 ppm	0.0 ppm
Hydrogen Selenide (SeH ₂)	0.2 ppm	0.03 ppm
Hydrogen Sulfide (H ₂ S)	0.3 ppm	0.12 ppm
I.P.A. ((CH ₃) ₂ CHCO)	5% Vol.	0.02 ppm
Nitrogen Monoxide (NO)	24 ppm	0 ppm
Nitrogen Dioxide (NO ₂)	3.6 ppm	-0.43 ppm
Ozone (O ₃)	0.6 ppm	-0.15 ppm
Phosphine (PH ₃)	1 ppm	0.78 ppm
Silane (SiH ₄)	14 ppm	1.51 ppm

Part # Prefix	Applicable Instruments
ES	GD-K8A, GD-K7D2, Eagle
ESM	GD-K71D, GD-K77D
ESU	GD-70D