

RKI Sensor Specification

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

Bis (Tertiary Butylamino) Silane (BTBAS)

Part Number: ES/ESM/ESU-23RV-BTBAS
Sensor Application: 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 – 15 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
Ammonia (NH ₃)	23 ppm	57.5 ppm
Arsine (AsH ₃)	510 ppb	-0.02 ppm
Carbon Dioxide (CO ₂)	2,500 ppm	-1 ppm
Carbon Monoxide (CO)	100 ppm	0 ppm
Diborane (B ₂ H ₆)	5.4 ppm	2.3 ppm
Dimethyl Amine (CH ₃) ₂ NH	30 ppm	57.5 ppm
Diethylenetriamine (NH ₂ CH ₂ CH ₂) ₂ NH	30 ppm	0 ppm
Hydrogen (H ₂)	2% Vol.	4.5 ppm
	99.9% Vol.	182.5 ppm

Gas	PPM Gas Applied	Reading
Hydrogen Chloride (HCL)	20 ppm	-24.9 ppm
Hydrogen Sulfide (H ₂ S)	33 ppm	4 ppm
I.P.A. ((CH ₃) ₂ CHCO	1% Vol.	2.5 ppm
Nitrogen Dioxide (NO ₂)	96 ppm	-108.9 ppm
Phosphine (PH ₃)	590 ppb	-0.4 ppm
Silane (SiH ₄)	13.9 ppm	-0.6 ppm
Sulfur Dioxide (SO ₂)	52 ppm	-42.4 ppm

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