

RKI Sensor Specification

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

Part Number:
Sensor Application:

Arsine (AsH₃)
ES/ESM-23AH-AsH3
GD-K8A, GD-K7D2, GD-K71D,
Eagle, GD-K77D

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
Range of Measurement	0 – 1.0 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)	1% Vol.	0.006
Acetylene (C ₂ H ₂)	4.3	0.050
Carbon Dioxide (CO ₂)	99.8% Vol.	0.013
Carbon Monoxide (CO)	300	0.018
Chlorine (Cl ₂)	0.25	-0.050
Diborane (B ₂ H ₆)	0.67	0.050
Disilane (Si ₂ H ₆)	0.14	0.050
Ethylene (C ₂ H ₄)	.17% Vol.	0.050
Germanium Tetrahydride (GeH ₄)	0.18	0.050
Hydrogen (H ₂)	.8% Vol.	0.050
Hydrogen Bromide (HBr)	1.5	0.050
Hydrogen Chloride (HCl)	1.4	0.050

Gas	PPM Gas Applied	Reading
Hydrogen Fluoride (HF)	8.3	0.050
Hydrogen Selenide (SeH ₂)	0.059	0.050
Hydrogen Sulfide (H ₂ S)	0.06	0.050
I.P.A. ((CH ₃) ₂ CHOH)	1% Vol.	0.008
Methanol (CH ₃ OH)	1% Vol.	0.002
Nitric Oxide (NO)	15	0.050
Nitrogen Dioxide (NO ₂)	0.29	-0.050
Ozone (O ₃)	0.24	0.050
Phosphine (Ph ₃)	0.034	0.050
Silane (SiH ₄)	0.3	0.050
Sulfur Dioxide (SO ₂)	0.4	0.050
Toluene (C ₇ H ₈)	1% Vol.	0.009

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