

RKI Sensor Specification

Arsine (AsH3)

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

Part Number: ES-23AHS-ASH3
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 - 0.2 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 ((CH3)2CO)	1% vol.	0.006
Acetylene (C2H2)	4.3	0.050
Carbon Dioxide (CO2)	99.8% vol.	0.013
Carbon Monoxide (CO)	300	0.018
Chlorine (Cl2)	0.25	-0.050
Diborane (B2H6)	0.67	0.050
Disilane (Si2H6)	0.14	0.050
Ethylene (C2H4)	.17% vol.	0.050
Germanium Tetrahydride (GeH4)	0.18	0.050
Hydrogen (H2)	.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 (SeH2)	0.059	0.050
Hydrogen Sulfide (H2S)	0.06	0.050
I.P.A. ((CH3)2CHOH)	1% vol.	0.008
Methanol (CH3OH)	1% vol.	0.002
Nitric Oxide (NO)	15	0.050
Nitrogen Dioxide (NO2)	0.29	-0.050
Ozone (O3)	0.24	0.050
Phosphine (Ph3)	0.034	0.050
Silane (SiH4)	0.3	0.050
Sulfur Dioxide (SO2)	0.4	0.050
Toluene (C7H8)	1% vol.	0.009