

RKI Sensor Specification

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

Part Number: ESM-01DH-ASH3
Sensor Application: SC-01, Direct Connect,
S2, M2, EAGLE 2

Arsine (AsH3)

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
Range of Measurement	0 – 1.5 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)	7.74% Vol.	0.5
Acetylene (C ₂ H ₂)	2.47	0.5
Ammonia (NH ₃)	700	0.5
Carbon Monoxide (CO)	—	—
Chlorine (Cl ₂)	1.95	-0.5
Diborane (B ₂ H ₆)	2.09	0.5
Disilane (Si ₂ H ₆)	0.36	0.5
Ethanol (C ₂ H ₅ OH)	—	—
Ethylene (C ₂ H ₄)	0.35% Vol.	0.5
Germanium Tetrahydride (GeH ₄)	0.41	0.5
Hydrogen (H ₂)	0.06 % Vol.	0.5

Gas	PPM Gas Applied	Reading
Hydrogen Chloride (HCl)	4.79	0.5
Hydrogen Selenide (SeH ₂)	0.88	0.5
Hydrogen Sulfide (H ₂ S)	0.82	0.5
I.P.A. ((CH ₃) ₂ CHOH)	7.81% Vol.	0.5
Methanol (CH ₃ OH)	—	—
Nitric Oxide (NO)	540	-0.5
Nitrogen Dioxide (NO ₂)	0.96	-0.5
Phosphine (Ph ₃)	0.29	0.5
Silane (SiH ₄)	0.79	0.5
Sulfur Dioxide (SO ₂)	1.09	0.5