

RKI Sensor Specification

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

Hydrogen Selenide (H₂Se)

Part Number: ES-23SD-H2Se
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	0-0.20 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	2 Year

Known Gas Interferences

Gas	PPM Gas Applied	Reading
Acetone ((CH ₃) ₂ CO)	1% vol.	0.019
Ammonia (NH ₃)	310	0.05
Arsine (AsH ₃)	0.11	0.05
Carbon Monoxide	0.5% vol.	0.05
Chlorine (Cl ₂)	.16	-0.05
Diborane (B ₂ H ₆)	3.2	0.05
Disilane (Si ₂ H ₆)	.72	0.05
Germane	.62	0.05
Hydrogen	.74% vol.	0.05

Gas	PPM Gas Applied	Reading
Hydrogen Chloride (HCl)	.26	0.05
Hydrogen Sulfide (H ₂ S)	0.056	0.05
Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH)	1% vol.	0.013
Nitric Oxide (NO)	160	-0.05
Nitrogen Dioxide	0.21	-0.05
Ozone	0.23	-0.05
Phosphine	0.08	0.05
Silane (SiH ₄)	1.5	0.05
Sulfur Dioxide (SO ₂)	1.8	0.05