

RKI Sensor Specification

Disilane (Si₂H₆)

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

Part Number: ES/ESM/ESU-23DH-Si₂H₆
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
Acetone ((CH ₃) ₂ CO)	1% Vol.	0.45
Ammonia (NH ₃)	250	0.46
Arsine (AsH ₃)	5.2	6.6
Carbon Dioxide (CO ₂)	99.9% Vol.	.04
Carbon Monoxide (CO)	5000	6.6
Chlorine (Cl ₂)	29	-6.6
Diborane (B ₂ H ₆)	18	6.6
Germane (GeH ₄)	4.4	6.6
Hydrogen (H ₂)	1% Vol.	6.6
Hydrogen Chloride (HCl)	58	6.6

Gas	PPM Gas Applied	Reading
Hydrogen Selenide (H ₂ Se)	21	6.6
Hydrogen Sulfide (H ₂ S)	13	6.6
I.P.A. ((CH ₃) ₂ CHOH)	1% Vol.	0.56
Nitrogen (N ₂)	99.9% Vol.	0.01
Nitrogen Dioxide (NO ₂)	19	-6.6
Nitrogen Monoxide (NO)	100	-0.12
Phosphine (PH ₃)	4.1	6.6
Silane (SiH ₄)	8.6	6.6
Sulfur Dioxide (SO ₂)	16	6.6

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