

RKI Sensor Specification

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

Diethylamine ((C₂H₅)₂ NH)

Part Number: ES/ESM/ESU-23RVM-DEA
GD-K8A, GD-K7D2, Eagle,
Sensor Application: GD-K71D, 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	Gas	PPM Gas Applied	Reading
Ammonia (NH ₃)	23 ppm	53.3 ppm	Hydrogen Peroxide (H ₂ O ₂)	40 ppm	-26.6 ppm
Arsine (AsH ₃)	0.51 ppm	-0.2 ppm	Hydrogen Sulfide (H ₂ S)	33 ppm	3.7 ppm
Carbon Dioxide (CO ₂)	2500 ppm	-0.9 ppm	Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH)	1% Vol	2.3 ppm
Carbon Monoxide (CO)	100 ppm	0.0 ppm	Isopropylamine (CH ₃) ₂ CHNH ₂	3.2 ppm	5.8 ppm
Diamylamine CH ₃ (CH ₂) ₄ NH(CH ₂) ₄ CH ₃)	5 ppm	2.3 ppm	Methanol (CH ₃ OH)	1% Vol	0.0 ppm
Diborane (B ₂ H ₆)	5.34 ppm	2.1 ppm	Nitrogen Dioxide (NO ₂)	96 ppm	- 100.9 ppm
Diethylenetriamine (NH ₂ CH ₂ CH ₂) ₂ NH	30 ppm	0.0 ppm	Ozone (O ₃)	0.6 ppm	-0.7 ppm
Diisopropylamine ((CH ₃) ₂ CH) ₂ NH	5 ppm	5.1 ppm	Phosphine (Ph ₃)	0.59 ppm	-0.4 ppm
Dimethylamine (CH ₃) ₂ NH	8 ppm	14.2 ppm	Silane (SiH ₄)	13.9 ppm	-0.5 ppm
Ethanol (C ₂ H ₅ OH)	1% Vol	0.4 ppm	Sulfur Dioxide (SO ₂)	52 ppm	-39.3 ppm
Galden (HT70) CF ₃ ((OC ₃ F ₆) _n (OCF ₂) _m)CF	1000 ppm	0.0 ppm	Tert-Butylamine (CH ₃) ₃ CNH ₂	5 ppm	6.3 ppm
Galden (HT200) CF ₃ ((OC ₃ F ₆) _n (OCF ₂) _m)CF	1000 ppm	0.0 ppm	Triamylamine (C ₅ H ₁₁) ₃ N	5 ppm	1.3 ppm
HFE-7100 (C ₄ F ₉ OCH ₃)	1000 ppm	-0.3 ppm	Triethylamine (C ₂ H ₅) ₃ N	2.4 ppm	4.1 ppm
Hydrogen (H ₂)	2% Vol	4.1 ppm	Trimethylamine (CH ₃) ₃ N	6 ppm	8.0 ppm
Hydrogen Chloride (HCl)	20 ppm	-23.0 ppm			

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