

RKI Sensor Specification

Dimethylamine (C2H7N)

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

Part Number: ES/ESM/ESU-23RVM-DMA
 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
Ammonia (NH3)	20 ppm	31.4 ppm
Arsine (AsH3)	0.5 ppm	0.0 ppm
Carbon Dioxide (CO2)	2,500 ppm	0.0 ppm
Carbon Monoxide (CO)	100 ppm	0.0 ppm
Diborane (B2H6)	5 ppm	-2.9 ppm
Diethylamine (C2H5)2NH	4.5 ppm	2.3 ppm
Ethanol	1% Vol	0.0 ppm
Hydrogen (H2)	1.96% Vol	0.8 ppm
Hydrogen (H2)	99.9% Vol	32.7 ppm
Hydrogen Chloride (HCl)	18 ppm	-32.4 ppm
Hydrogen Peroxide (H2O2)	3 ppm	-2.3 ppm

Gas	PPM Gas Applied	Reading
Hydrogen Peroxide (H2O2)	3 ppm	-2.3 ppm
Hydrogen Sulfide (H2S)	29.8 ppm	1.7 ppm
Isopropyl Alcohol (IPA) ((CH3)2CHOH)	1% Vol	0.0 ppm
Methanol (CH3OH)	1% Vol	0.0 ppm
Monomethylamine (CH3)NH2	8 ppm	9.1 ppm
Nitrogen Dioxide (NO2)	51.5 ppm	- 42.2 ppm
Oxone O3	0.54 ppm	-0.5 ppm
Phosphine (Ph3)	0.5 ppm	0. ppm
Silane (SiH4)	15 ppm	0.0 ppm
Sulfur Dioxide (SO2)	49.1 ppm	-41.7 ppm
Trimethylamine (CH3)3N	4 ppm	4.5 ppm

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