

# RKI Sensor Specification

## Hydrazine (N2H4)

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

**Part Number:** ES/ESM/ESU-23E-N2H4  
GD-K8A, GD-K7D2, Eagle,  
**Sensor Application:** GD-K77D, GD-K71D,  
GD-70D

Technical Specifications			
<b>Measuring Principle</b>	Amperometric 3-electrode sensor	<b>Accuracy</b>	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
<b>Range of Measurement</b>	0 – 4 ppm	<b>Repeatability</b>	+/- 5% of reading
<b>Resolution</b>	1% of full scale	<b>T<sub>90</sub> Response time (20°C, 2 min. exposure)</b>	90 seconds

Operating Conditions			
<b>Temperature Range</b>	-20°C to +45°C	<b>Life Expectancy</b>	2-3 Years
<b>Humidity Range</b>	10-95% RH, Non Condensing	<b>Warranty</b>	1 Year

## Known Gas Interferences

Gas	PPM Gas Applied	Reading
Acetone ((CH3)2CO)	1% vol	0.9 ppm
Acetylene (C2H2)	43	2 ppm
Arsine (AsH3)	0.5	2 ppm
Carbon Dioxide (CO2)	99.9%	-0.02 ppm
Carbon Monoxide (CO)	300	0.11 ppm
Chlorine (Cl2)	10	-0.22 ppm
Diborane (B2H6)	20	2 ppm
Disilane (Si2H6)	4.4	2 ppm
Ethylene (C2H4)	244	2 ppm
Fluorine (F2)	11	-2 ppm
Germanium Tetrahydride (GeH4)	9	2 ppm
Hydrogen (H2)	9.8% vol	2 ppm
Hydrogen Bromide (HBr)	2.8	2 ppm
Hydrogen Chloride (HCl)	2.4	2 ppm

Gas	PPM Gas Applied	Reading
Hydrogen Cyanide (HCN)	15	1.64 ppm
Hydrogen Fluoride (HF)	10	0.65 ppm
Hydrogen Selenide (SeH2)	0.41	2 ppm
Hydrogen Sulfide (H2S)	27	2 ppm
Isopropyl Alcohol (IPA) ((CH3)2CHOH)	1% vol	0.22 ppm
Methanol (CH3OH)	1% vol	0.04 ppm
Nitric Oxide (NO)	9	2 ppm
Nitrogen Dioxide (NO2)	14	2 ppm
Ozone (O3)	14	-2 ppm
Phosphine (Ph3)	0	2 ppm
Silane (SiH4)	20	2 ppm
Sulfur Dioxide (SO2)	10	2 ppm
Toluene (C7H8)	1% vol	2.0 ppm