

RKI Sensor Specification

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

Hydrogen Peroxide (H2O2)

Part Number: ES/ESM-23DH-H2O2
Sensor Application: GD-K8A, GD-K7D2, GD-K71D, Eagle, GD-K77D

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
Range of Measurement	0 – 3 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 ((CH3)2CO)	1.0 % vol	1.0 ppm
Ammonia (NH3)	250 ppm	1.1 ppm
Arsine (AsH3)	5.2 ppm	5.0 ppm
Carbon Dioxide (CO2)	99.9 % vol	0.1 ppm
Carbon Monoxide (CO)	1250 ppm	4.1 ppm
Chlorine (Cl2)	7.2 ppm	-4.1 ppm
Diborane (B2H6)	4.5 ppm	4.1 ppm
Disilane (Si2H6)	1.0 ppm	4.1 ppm
Germanium Tetrahydride (GeH4)	1.1 ppm	4.1 ppm
Hydrogen (H2)	0.25 % vol	4.1 ppm

Gas	PPM Gas Applied	Reading
Hydrogen Chloride (HCl)	14.5 ppm	4.1 ppm
Hydrogen Selenide (SeH2)	5.2 ppm	4.1 ppm
Hydrogen Sulfide (H2S)	3.2 ppm	4.1 ppm
Isopropyl Alcohol (IPA) ((CH3)2CHOH)	1.0 % vol	1.4 ppm
Methane (CH4)	1.0 % vol	no response
Nitrogen (N2)	99.9 % vol	0.03 ppm
Nitric Oxide (NO)	100 ppm	-0.29 ppm
Nitrogen Dioxide (NO2)	4.8 ppm	-4.1 ppm
Phosphine (Ph3)	0.5 ppm	2.0 ppm
Sulfur Dioxide (SO2)	4 ppm	4.1 ppm

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