

RKI Sensor Specification

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

Hydrogen Peroxide (H₂O₂)

Part Number: ES-23DH-H₂O₂
Sensor Application: EAGLE, Fixed Systems

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10 % of reading
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 ((CH ₃) ₂ CO)	1.0 % vol	1.0 ppm
Ammonia (NH ₃)	250 ppm	1.1 ppm
Arsine (AsH ₃)	5.2 ppm	5.0 ppm
Carbon Dioxide (CO ₂)	99.9 % vol	0.1 ppm
Carbon Monoxide (CO)	1250 ppm	4.1 ppm
Chlorine (Cl ₂)	7.2 ppm	-4.1 ppm
Diborane (B ₂ H ₆)	4.5 ppm	4.1 ppm
Disilane (Si ₂ H ₆)	1.0 ppm	4.1 ppm
Germanium Tetrahydride (GeH ₄)	1.1 ppm	4.1 ppm
Hydrogen (H ₂)	0.25 % vol	4.1 ppm

Gas	PPM Gas Applied	Reading
Hydrogen Chloride (HCl)	14.5 ppm	4.1 ppm
Hydrogen Selenide (SeH ₂)	5.2 ppm	4.1 ppm
Hydrogen Sulfide (H ₂ S)	3.2 ppm	4.1 ppm
Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH)	1.0 % vol	1.4 ppm
Methane (CH ₄)	1.0 % vol	no response
Nitrogen (N ₂)	99.9 % vol	0.03 ppm
Nitric Oxide (NO)	100 ppm	-0.29 ppm
Nitrogen Dioxide (NO ₂)	4.8 ppm	-4.1 ppm
Phosphine (Ph ₃)	0.5 ppm	2.0 ppm
Sulfur Dioxide (SO ₂)	4 ppm	4.1 ppm