

RKI Sensor Specification

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

Part Number:
Sensor Application:

Chlorine (Cl₂)

ES-K239B-CL2
GD-K8A, GD-K7D2

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	T ₉₀ 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 (NH ₃)	39.7 ppm	0.0 ppm
Bromine (Br ₂)	10 ppm	0.0 ppm
Carbon Dioxide (CO ₂)	1.0% vol	0.0 ppm
Carbon Monoxide (CO)	100.2 ppm	0.0 ppm
Chlorine (Cl ₂)	0.8 ppm	0.8 ppm
Fluorine (F ₂)	2.0 ppm	0.4 ppm
Halocarbon 14 (CF ₄)	490 ppm	0.0 ppm
Hydrogen (H ₂)	100% vol	0.0 ppm
Hydrogen Chloride (HCl)	5.9 ppm	0.0 ppm

Gas	PPM Gas Applied	Reading
Hydrogen Fluoride (HF)	6.0 ppm	0.0 ppm
Hydrogen Sulfide (H ₂ S)	30.7 ppm	-0.3 ppm
Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH)	1.3% vol	0.0 ppm
Methane (CH ₄)	100% vol	0.0 ppm
Nitric Oxide (NO)	101.2 ppm	0.0 ppm
Nitrogen Dioxide (NO ₂)	48.5 ppm	0.1 ppm
Ozone (O ₃)	0.5 ppm	0.0 ppm
Phosphine (Ph ₃)	1.0 ppm	0.0 ppm
Sulfur Dioxide (SO ₂)	50.1 ppm	0.0 ppm