

RKI Sensor Specification

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

Sulfur Dioxide (SO₂)

Part Number: ES-23E-SO₂
Sensor Application: EAGLE, Fixed Systems

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10 % of reading
Range of Measurement	0 – 30 ppm (or 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
Acetone ((CH ₃) ₂ CO)	1.0 % vol	0.23 ppm
Ammonia (NH ₃)	1.3 % vol	10 ppm
Chlorine (Cl ₂)	180 ppm	-10 ppm
Ethylene (C ₂ H ₄)	54 ppm	10 ppm
Hydrogen (H ₂)	2.1 %vol	10 ppm

Gas	PPM Gas Applied	Reading
Hydrogen Chloride (HCl)	30 ppm	10 ppm
Hydrogen Sulfide (H ₂ S)	2.8 ppm	10 ppm
Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH)	1.0 % vol	1.5 ppm
Nitric Oxide (NO)	6.2 ppm	10 ppm
Nitrogen Dioxide (NO ₂)	20 ppm	10 ppm