

RKI Sensor Specification

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

Part Number:
Sensor Application:

Sulfur Dioxide (SO₂)
ES/ESM/ESU-23E-SO2
GD-K8A, GD-K7D2, GD-K71D,
Eagle, GD-K77D, GD-70D

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
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

Part # Prefix	Applicable Instruments
ES	GD-K8A, GD-K7D2, Eagle
ESM	GD-K71D, GD-K77D
ESU	GD-70D