RKI Sensor Specification

Sulfur Dioxide (SO2) Features: Fast warm-up time

Good zero stability Part Number: ES/ESM-23E-SO2 GD-K8A, GD-K7D2, GD-K71D, Quick response time

Sensor Application: 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 – 30 ppm (or 0 – 15 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
Acetone ((CH3)2CO)	1.0% Vol.	0.23 ppm
Ammonia (NH3)	1.3% Vol.	10 ppm
Chlorine (Cl2)	180 ppm	-10 ppm
Ethylene (C2H4)	54 ppm	10 ppm
Hydrogen (H2)	2.1% Vol.	10 ppm

Gas	PPM Gas Applied	Reading
Hydrogen Chloride (HCI)	30 ppm	10 ppm
Hydrogen Sulfide (H2S)	2.8 ppm	10 ppm
Isopropyl Alcohol (IPA) ((CH3)2CHOH)	1.0% Vol.	1.5 ppm
Nitric Oxide (NO)	6.2 ppm	10 ppm
Nitrogen Dioxide (NO2)	20 ppm	10 ppm

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