RKI Sensor Specification

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

Bromine (Br2)

Part Number: ES-K233-Br2
Sensor Application: EAGLE, Fixed Systems

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	**Accuracy**	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
Range of Measurement	0 – 1 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
Acetic Acid (CH3C00H)	100.0	16.5
Ammonia (NH3)	39.4	0.0
Carbon Dioxide (CO2)	1% vol.	0.0
Carbon Monoxide (CO)	286.6	0.0
Chlorine (Cl2)	1.0	1.0
Chlorine Trifluoride (ClF3)	1.0	0.9
Ethanol (C2H5OH)	10% vol.	0.0
Fluorine (F2)	2.0	1.3
Hydrogen (H2)	99.9% vol.	0.0
Hydrogen Bromide (HBr)	5.6	0.2
Hydrogen Chloride (HCl)	3.0	2.0
Hydrogen Cyanide (HCN)	20.0	-0.4

Gas	PPM Gas Applied	Reading
Hydrogen Fluoride (HF)	6.0	4.6
Hydrogen Sulfide (H2S)	32.8	-0.1
Iodine (I2)	1.0	0.8
I.P.A. ((CH3)2CHOH)	3% vol.	0.0
Methane (CH4)	99.9% vol.	0.0
Methanol (CH3OH)	10% vol.	0.0
Nitric Acid (HN03)	5.0	1.7
Nitrogen Dioxide (NO2)	101.0	3.0
Ozone (O3)	5.0	3.5
Phosgene (COCl2)	1.0	0.0
Phosphine (PH3)	1.1	0.0
Sulfur Dioxide (SO2)	10.0	2.0