

# RKI Sensor Specification

## Ozone (O3)

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

**Part Number:**  
**Sensor Application:**

ES-23AH-O3  
GD-K8A, GD-K7D2

Technical Specifications			
<b>Measuring Principle</b>	Amperometric 3-electrode sensor	<b>Accuracy</b>	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
<b>Range of Measurement</b>	0 - 5.00 ppm	<b>Repeatability</b>	+/- 5% of reading
<b>Resolution</b>	1% of full scale	<b>T<sub>90</sub> Response time (20°C, 2 min. exposure)</b>	90 seconds

Operating Conditions			
<b>Temperature Range</b>	-20°C to +45°C	<b>Life Expectancy</b>	2-3 Years
<b>Humidity Range</b>	10-95% RH, Non Condensing	<b>Warranty</b>	1 Year

## Known Gas Interferences

Gas	PPM Gas Applied	Reading
Acetone ((CH3)2CO)	1% vol	0 ppm
Ammonia (NH3)	50	0 ppm
Chlorine (Cl2)	0.5	0.3 ppm
Ethanol (C2H5OH)	1% vol	0 ppm
Fluorine (F2)	5	1.3 ppm
Hydrogen (H2)	2% vol	-0.4 ppm
Hydrogen Sulfide (H2S)	1.2 ppm	-0.6 ppm

Gas	PPM Gas Applied	Reading
Isopropyl Alcohol (IPA) ((CH3)2CHOH)	1% vol	0 ppm
Nitric Oxide (NO)	103	1.5 ppm
Nitrogen Dioxide (NO2)	4.2	1.6 ppm
Nitrogen Trifluoride (NF3)	20	0 ppm
Sulfur Dioxide (SO2)	15.9	0 ppm
Trichloroethylene (TCE)	1% vol	0 ppm
Toluene (C7H8)	1% vol	0 ppm