

# RKI Sensor Specification

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

## Hydrogen Cyanide (HCN)

**Part Number:** ES-23DH-HCN  
**Sensor Application:** EAGLE, Fixed Systems

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 – 30 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 ((CH <sub>3</sub> ) <sub>2</sub> CO)	3360 ppm	15 ppm
Acetylene (C <sub>2</sub> H <sub>2</sub> )	30.07% Vol.	15 ppm
Ammonia (NH <sub>3</sub> )	7750 ppm	15 ppm
Carbon Monoxide (CO)	1430 ppm	15 ppm
Chlorine (Cl <sub>2</sub> )	10.4 ppm	-15 ppm
Ethane (C <sub>2</sub> H <sub>6</sub> )	616 ppm	15 ppm
Hydrogen (H <sub>2</sub> )	0.33% Vol.	15 ppm
Hydrogen Chloride (HCl)	56.66 ppm	15 ppm

Gas	PPM Gas Applied	Reading
Hydrogen Sulfide (H <sub>2</sub> S)	4.49 ppm	15 ppm
Isopropyl Alcohol (IPA) ((CH <sub>3</sub> ) <sub>2</sub> CHOH)	9.89% Vol.	15 ppm
Nitric Oxide (NO)	3360 ppm	15 ppm
Nitrogen Dioxide (NO <sub>2</sub> )	5.25 ppm	-15 ppm
Ozone (O <sub>3</sub> )	4.42 ppm	-15 ppm
Silane (SiH <sub>4</sub> )	2.64 ppm	15 ppm
Sulfur Dioxide (SO <sub>2</sub> )	5.81 ppm	15 ppm