

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			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10 % of reading
Range of Measurement	0 – 30 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)	3360 ppm	15 ppm
Acetylene (C ₂ H ₂)	30.07 %vol	15 ppm
Ammonia (NH ₃)	7750 ppm	15 ppm
Carbon Monoxide (CO)	1430 ppm	15 ppm
Chlorine (Cl ₂)	10.4 ppm	-15 ppm
Ethane (C ₂ H ₆)	616 ppm	15 ppm
Hydrogen (H ₂)	0.33 %vol	15 ppm
Hydrogen Chloride (HCl)	56.66 ppm	15 ppm

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