

RKI Sensor Specification

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

Hydrogen Cyanide (HCN)

Part Number: ES-23-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
Carbon Dioxide (CO ₂)	21 % vol	1.0
Carbon Monoxide (CO)	17	4.0
Ethane (C ₂ H ₆)	264	1.0
Ethylene (C ₂ H ₄)	42	1.0
Hydrogen (H ₂)	212	1.0
Hydrogen Sulfide (H ₂ S)	85	0.0
IsoButane (C ₄ H ₁₀)	4.2 % vol	0.0

Gas	PPM Gas Applied	Reading
Methane (CH ₄)	21 % vol	0.0
Nitric Oxide (NO)	106	54.0
Nitrogen Dioxide (NO ₂)	42	-3.0
Propane (C ₃ H ₈)	4,250	1.0
Propylene (C ₃ H ₆)	42	1.0
Sulfur Dioxide (SO ₂)	89	0.0