

RKI Sensor Specification

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

Hydrogen Cyanide (HCN)

Part Number: ESM-01DH-D-HCN
Sensor Application: Direct Connect, S2, M2,
Eagle 2, SC-01

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
Range of Measurement	0 – 15 ppm	Repeatability	+/- 5% of reading
Resolution	1% of full scale	T₉₀ Response time (20°C, 2 min. exposure)	60 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	With Filter	With out Filter
Acetone (CH ₃) ₂ CO	0.85%	0.2	0.2
Ammonia (NH ₃)	251	0.1	0.9
Carbon Monoxide (CO)	500	2.1	4.6
Chlorine (Cl ₂)	1.7	-0.16	-2.7
Ethanol (C ₂ H ₅ OH)	1.1% Vol.	0.16	0.7
Hydrogen (H ₂)	934	3.0	2.8
Hydrogen Chloride (HCl)	15	0.08	7.9
Hydrogen Fluoride (HF)	6.1	0.05	0.1

Gas	PPM Gas Applied	With Filter	With out Filter
Hydrogen Sulfide (H ₂ S)	1.5	0.02	4.0
Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH)	1.6% Vol.	1.8	8.5
Methanol (CH ₃ OH)	1.1% Vol.	0.05	0.5
Nitric Oxide (NO)	100	-1.5	-2.6
Nitrogen Dioxide (NO ₂)	1.8	-1.2	-4.5
Ozone (O ₃)	1.7	-0.52	-4.1
Phosphine (Ph ₃)	0.51	4.3	5.4
Sulfur Dioxide (SO ₂)	2.0	0.02	4.9