

RKI Sensor Specification

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

Carbon Monoxide (CO)

Part Number: ES-81-CO
Sensor Application: EAGLE

Technical Specifications			
Measuring Principle	Amperometric 2-electrode sensor	Accuracy	+/- 10 % of reading
Range of Measurement	0 – 300 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
Acetylene (C ₂ H ₂)	10.0	1.0
Benzene (C ₆ H ₆)	1% vol.	1.0
Carbon Dioxide (CO ₂)	no response	1.0
Carbon Monoxide (CO)	1.0	1.0
Chlorine (Cl ₂)	no response	1.0
Ethane (C ₂ H ₆)	no response	1.0
Ethylene (C ₂ H ₄)	10.0	1.0
Hexane (C ₆ H ₁₄)	3% vol.	1.0
Hydrogen (H ₂)	30.0	1.0

Gas	PPM Gas Applied	Reading
IsoButane (C ₄ H ₁₀)	no response	1.0
Methane (CH ₄)	no response	1.0
Methanol (CH ₃ OH)	0.4	1.0
Nitric Oxide (NO)	0.2	1.0
Nitrogen Dioxide (NO ₂)	no response	1.0
Pentane (C ₅ H ₁₂)	2% vol.	1.0
Sulfur Dioxide (SO ₂)	2.0	1.0
Toluene (C ₇ H ₈)	5% vol.	1.0
Xylene (C ₈ H ₁₀)	1% vol.	1.0